THOMPSON OKANAGAN REGION

RESOURCE MANAGEMENT PLAN

2000-01

Volume I

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Introduction

The Ministry of Forests (MoF) and the Ministry of Environment, Lands and Parks (MELP) are mandated by legislation to undertake planning functions related to the management of Crown forestland.

As part of the Service Agreements with Forest Renewal BC, MoF and MELP recommends conservation and stewardship investment opportunities in support of the strategic objectives identified in the "Forest Renewal BC Strategic Plan 1999-2003". These recommended opportunities evolve as a product of the Resource Management Plans (RMPs).

The purposes of RMPs are to:

1. Identify MoF and MELP management resource objectives and priorities;
2. Recommend investment opportunities in support of Forest Renewal BC strategic objectives eligible for investment funding; and
3. Identify funding requirements for the ministries' objectives and resource priorities eligible for funding from sources other than Forest Renewal BC.

This document contains the RMP for the Thompson Okanagan Region.

Background

Resource management planning was first contemplated in 1997 when ministries provided Forest Renewal BC with a list of priorities to assist with their directed call for proposals. Resource management planning was formally introduced to both ministries in 1998 as a way to link resource management objectives with investment decision making and project selection. This planning process was based on the defined Forest Renewal BC land based programs (e.g., EFP, WRP, and Field Inventories) and related MoF programs (e.g., forest health). The RMP that resulted from this process primarily outlined priorities for Forest Renewal BC eligible activities as determined by the MoF and the MELP. Subsequent to this, Forest Renewal BC led "planning unit tables", consisting of ministries and licensees representatives. These groups recommended targets and critical projects that would drive Forest Renewal BC's 1999/00 funding allocation. The intention was that the RMP was one of several inputs to the investment decision process. In 1999 the ministries have again developed RMPs to guide Forest Renewal land-based investments.

Purpose

The RMP process addresses the priorities for land based activities from the perspective of biological needs and forest resource management priorities. It is designed to provide guidance to Forest Renewal BC and other agencies in determining the best activities for investments, regardless of the funding source or who is actually completing the work.

Towards these ends, the RMP should satisfy a variety of purposes. It will examine land based resource needs and priorities in terms of:

- commitments, recommendations and links to other land and resource management plans;
- the long term resource implications of current investments;
- the value, risks and benefits of the various activities and treatments;
- the necessary timelines to meet resource management objectives;
- delivery recommendations, viable options and consequences of not carrying out the activity;
- consistency within programs and between delivery centres; and
- providing resource investment recommendations consistent with Forest Renewal BC investment principles and ground rules.

The following points broadly describe the RMP process:

- the RMP provides the necessary information for investors to make informed investment decisions;
- the proponent consultation report meets Forest Renewal BC requirements for stakeholder participation;
- the RMP is developed with full involvement of licensees;
- the RMP is based on best available information at the time of the plan;
- the RMP considers TSA, TFL and Woodlot Licence objectives and priorities; and
- the RMP estimates the effects activities will have on the anticipated outcomes/targets as identified by Forest Renewal BC's broad performance measures specific to each strategic objective.

Process and Procedures

The following points broadly describe the RMP process:

- the RMP provides the necessary information for investors to make informed investment decisions;
- the proponent consultation report meets Forest Renewal BC requirements for stakeholder participation;
- the RMP is developed with full involvement of licensees;
- the RMP is based on best available information at the time of the plan;
- the RMP considers TSA, TFL and Woodlot Licence objectives and priorities; and
- the RMP estimates the effects activities will have on the anticipated outcomes/targets as identified by Forest Renewal BC's broad performance measures specific to each strategic objective.

Thompson Okanagan Region Investment Plan

The Thompson Okanagan Region investment plans will be guided by the following performance measures:

Sustainable Harvest

Forest Renewal BC will invest in the production of faster-growing, higher-quality stands of second-growth timber on lands available for timber production.

Key Target

Forest Renewal BC's investments will increase the timber available for potential future harvest by 3.5 million cubic metres over the next five years in the Thompson Okanagan Region. This will make a significant contribution to the economy of the Thompson Okanagan and will increase future options for sustainable forest management.

Performance Measures

- All backlog will be stocked by 2004.
- The economic value of the stand on all enhanced forestry treatment areas will be increased by a minimum of 5 per cent.
- 12,500 hectares of previously planted land will be brought to free growing status by 2004.
- 2,500 hectares will be added to the commercial forest base through surveys and planting by 2004.
- Silviculture investment plans will be completed by 2001 to guide forest-level strategic plans in all 10 of the region's management units by 2004.
- Planned activities will be subject to "reasonable cost" analysis.

Enhance Environmental Values

Forest Renewal BC will invest in restoring forest watersheds and in promoting environmental stewardship and strong environmental values in BC's forests.

Key Target

Over the next five years, Forest Renewal BC will work with its partners to complete the restoration of 20 percent of the highest priority watersheds that have been damaged or seriously threatened by past forest development activities in the Thompson Okanagan Region.

During 1999/2000 planning year:

- The highest-priority watersheds will be identified on the basis of fisheries and aquatic resource values, and the likelihood of restoration success.

Over the next five years:

- There will be a reduced risk of sedimentation in more than 5 community watersheds.
- There will be an increase in the quality and quantity of fish habitat in more than 12 watersheds.
- Twelve community groups are currently participating in the Watershed Restoration Program. This number will be maintained or increased in 2001.
- New knowledge and tools for watershed restoration will be used
- Research gaps in watershed restoration will be identified.

Strengthen Sustainable Forest Management

Forest Renewal BC will invest in the development of relevant, useable, timely information and tools keyed to achieving sustainable forest management.

Key Target

Forest Renewal BC will work with its partners to identify and address key gaps in knowledge by April 1, 2003, directed to achieving sustainability for upcoming TSRs and for strategic land use plans such as LRMPs that are underway

Performance Measures

- By April 1, 2000, key gaps will be identified in information requirements for the Okanagan and Lillooet TSAs and the IFPAs.
- All gaps, including those identified in the Kamloops LRMP, will be prioritised based on timing, need and cost/benefit.
- 100% of the gaps will be addressed by April 1, 2003
- Key gaps requiring additional research will be identified April 1, 2000. Further research needs may become apparent as planning continues.
- All transition activities which are not consistent with the Forest Renewal BC strategic objective, but for which funding is required to complete existing commitments will be honoured.

Investment levels and budgets in the Thompson Okanagan Region will respect current TSA and multi-year funding allocations to the extent possible. The following preliminary allocation of the 2000/2001 budget was used to guide the development of the preliminary list of investment opportunities.

Management Unit	Sustainable Harvest	Enhancing Environmental Values	Strengthening Sustainable Forest Management	MYA Funding Total	Annual Funding Total	Total
Kamloops TSA	$ 2,150,000	$ 1,226,300	$ 1,932,348	$ 5,308,648		$ 5,308,648
Kamloops TFL 18				$ 588,250		$ 588,250
Kamloops TFL 35				$ 411,780		$ 411,780
Kamloops Woodlots	$ 96,309				$ 96,309	$ 96,309
Kamloops IFPA	$ 330,310		$ 590,000		$ 920,310	$ 920,310
			TOTAL	$ 6,308,678	$ 1,016,619	$ 7,325,297
Okanagan TSA	$ 2,163,525	$ 1,234,010	$ 1,944,502	$ 5,342,037		$ 5,342,037
Okanagan TFL 15				$ 191,960		$ 191,960
Okanagan TFL 33				$ 52,960		$ 52,960
Okanagan TFL 49				$ 873,770		$ 873,770
Okanagan Woodlots	$ 98,679				$ 98,679	$ 98,679
			TOTAL	$ 6,460,727	$ 98,679	$ 6,559,406
Merritt TSA	$ 1,240,150	$ 707,350	$ 1,114,603	$ 3,062,103		$ 3,062,103
Merritt Woodlots	$ 26,614				$ 26,614	$ 26,614
Merritt IFPA	$ 457,860		$ 1,654,490		$ 2,112,350	$ 2,112,350
			TOTAL	$ 3,062,103	$ 2,138,964	$ 5,201,067
Lillooet TSA	$ 548,500	$ 312,850	$ 492,981	$ 1,354,331		$ 1,354,331
Lillooet Woodlots	$ 17,071				$ 17,071	$ 17,071
			TOTAL	$ 1,354,331	$ 17,071	$ 1,371,402
Regional Priorities	$ 228,828		$ 360,000		$ 588,828	$ 588,828
			TOTAL		$ 588,828	$ 588,828
TOTAL	$ 7,357,846	$ 3,480,510	$ 8,088,924	$ 17,185,839	$ 3,860,161	$ 21,046,000

Thompson Okanagan RMP

The Thompson Okanagan RMP is developed consistent with the provincial RMP planning principles and guidelines and the following regional ground rules.

Sustainable Harvest (Jim Hesse, FRBC contact).

Co-ordinated by the regional MOF silviculture forester, each management unit (MU) will develop a separate sustainable harvest resource management plan. MOF regional staff will develop a regional wide list of activities, district staff will develop the plans for each TSA; licensees will provide a list of planned activities for TFLs and IFPAs. The MU RMP will be rolled up to the Planning Unit level and then to the Regional level. MELP will provide input at the Planning Unit level. Industry and First Nations will be given an opportunity to review and comment on the draft plans before the draft plan is presented to FRBC on August 30.

Enhanced Environmental Values (Chris Ortner, FRBC contact).

The Thompson Okanagan Watershed Committee (TOWC) will be responsible for the development of a draft EEV RMP by August 30. Committee minutes will acknowledge membership responsibility with respect to communication with their client groups. The TOWC will identify key high priority watersheds and rank them against the existing projects in the plans. Ongoing low priority work will be addressed through the transition period to the satisfaction of the Regional Director. The proponent and agencies will collectively develop these transition strategies.

Strengthening Sustainable Forest Management (Steve Schell, FRBC contact).

A regional team co-chaired by MOF and MELP will be responsible for the development of a draft SSFM RMP by August 30. Representatives will include FRBC, LUCO, and ILMA. MOF will be responsible for the production of the final document. The team members will be responsible for meeting with TSA/TFL/IFPA/FN counterparts.

Sustainable Harvest

Introduction

This resource management plan (RMP) is designed to provide guidance to Forest Renewal in determining the best investments to achieve its Sustainable Harvest Objective of investing in the production of faster-growing, higher quality stands of second-growth timber on lands available for timber production.

This RMP also provides a recommended list of activities and priorities to guide Ministry of Forests investments in the Forest Health Maintenance and Current Reforestation programs.

Strategic Objectives

Each of the sustainable harvest programs has a Strategic Objective. This objective is the resource management target and is designed to guide what the program needs to achieve. The activities and investments within the program should all be directed towards achieving this objective. The Strategic Objectives for each program are as follows:

- Backlog Reforestation: To ensure prompt and effective reforestation, including stand tending on backlog sites until free growing stands are achieved.
- Stand Tending Activities: To manage incremental silviculture activities for their maximum resource benefits, including maintaining or enhancing fibre flow or fibre quality, for both the short and long term
- Forest Health Enhancement: To maintain or enhance fibre flow or fibre quality through activities that reduce forest health impacts to young stands.
- Forest Health Maintenance: To monitor and improve the health, vigour and productivity of the forest land base while minimizing unsalvaged losses caused by various damaging agents.
- Current Fire and Pest: To ensure prompt and effective reforestation of areas damaged or denuded by fire and pest events, and stand tending until free growing stands are achieved.
- Incremental Reforestation: To enhance fibre flow or fibre quality by fill-planting, identifying and replacing young stands whose growth performance is significantly depressed by genetic maladaptation, and by rehabilitation and reforestation of landings, skid trails and roads.
-

The Plan

This Sustainable Harvest portion of the RMP includes "stand alone" plans for 19 separate management units:

- 7 Forest Districts (Clearwater, Kamloops, Salmon Arm, Vernon, Penticton, Merritt and Lillooet) grouped into 4 TSAs (Kamloops, Okanagan, Merritt and Lillooet)

- 5 Tree Farm Licences (Weyerhaueser TFLs 15 and 35, Slocan TFL 18, Federated Cooperatives TFL 33, and Riverside TFL 49)
- 6 woodlot licence associations (Clearwater, Kamloops, Shuswap-Okanagan, South Okanagan, Merritt and Lillooet)
- 1 Innovative Forest Practices Agreement (Interfor, Kamloops TSA). The Merritt IFPA is included in the Merritt District RMP.

It also includes Habitat Enhancement activities as compiled by the Ministry of Environment, Lands and Parks and the Ministry of Forests' regionally co-ordinated Forest Health activities.

Sustainable Harvest allocations are made on a TSA basis so the 7 Forest District plans have been summarized by TSA. The Kamloops TSA includes Clearwater and Kamloops, the Okanagan TSA includes Salmon Arm, Vernon and Penticton, Merritt and Lillooet TSAs have the same boundaries as the Forest Districts.

Each management unit RMP includes a text section and a series of tables showing 5 years of recommended activities and a recommended Annual Plan for the 2000/01 fiscal year.

Note: The totals in many of the tables are incorrect as they sum different units. For example, the backlog tables may sum hectares of treatment, number of seedlings and number of studies, all of which have different units of measurement. This problem does not occur with dollar sums.

Priorities

In the absence of silviculture investment analyses, treatment/activity priorities were developed from the Ministry of Forests Backlog Management Policy, LRMP commitments for the Kamloops TSA, and the default priorities provided in the Sustainable Harvest RMP Guidelines.

Note: Users of this RMP must recognize that some priorities may be deceptive. Only one priority (the dominant one) was assigned to each activity. Also, forest cover and timber supply issues vary between management units necessitating different treatment priorities. For this reason, TSAs with more than one forest district may show the same activity with different priorities.

Table A – Backlog Reforestation

With the aim of putting productive forest land back into production, the general order of priority is:

- Legal obligations under silviculture prescriptions and the Kamloops LRMP commitment to backlog reforestation
- Surveys and brushing of impeded areas to ensure they reach free growing and prior investments are protected.

Table B – Stand Tending
Priorities were established by the manager(s) of the unit with the aim of maintaining or enhancing wood fibre flow and/or quality.

Table C – Forest Health Enhancement
Priority is on those activities carried out on second growth stands to improve or enhance forest health conditions.

Table D – Forest Health Maintenance
This table includes activities carried out on mature stands to protect them from damaging agents.

Table E – Current Fire and Pest Activities
This table includes activities required to achieve free growing stands on areas denuded by fire or pests after October 1987.

Table F – Habitat Enhancement Activities
This table includes silviculture activities that should be implemented with the primary objective of maintaining or enhancing wildlife habitat or domestic forage conditions. Table F is tabulated for the region as a whole.

Table G – Incremental Reforestation
Activities in this table are priorized by their contribution toward putting productive forest land back into production or helping that land reach its fibre production potential.

FRBC Activities

Kamloops TSA Resource Management Plan for Sustainable Harvest

Discussion

Background
This resource management plan (RMP) is designed to provide guidance to Forest Renewal in determining the best investments to achieve its Sustainable Harvest Objective of investing in the production of faster-growing, higher quality stands of second-growth timber on lands available for timber production.

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Each of the sustainable harvest programs has a Strategic Objective. This objective is the resource management target and is designed to guide what the program needs to achieve. The activities and investments within the program should all be directed towards achieving this objective. The Strategic Objectives for each program are as follows:

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- Incremental Reforestation: To enhance fibre flow or fibre quality by fill-planting, identifying and replacing young stands whose growth performance is significantly depressed by genetic maladaptation, and by rehabilitation and reforestation of landings, skid trails and roads.

1.0 Basic TSA Data (from Atherton and Associates Incremental Silviculture Strategy)

Land Area

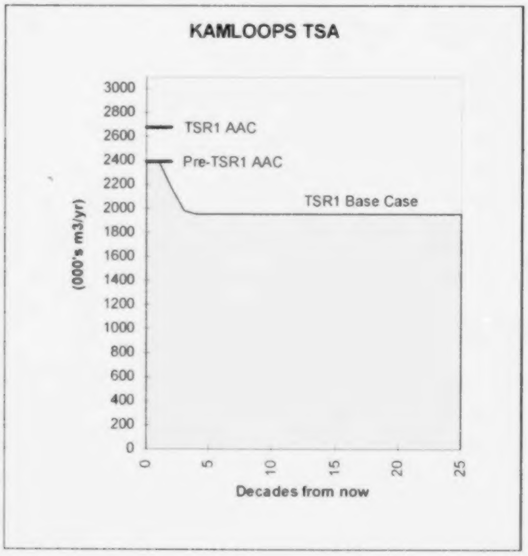
Description	Area (ha)	Area %
Total Area of TSA	2 117 700	100
Total Productive Crown Forest	1 441 100	68
Net Timber Harv. Land Base*	950 800	41

Source: TS analysis report - rounded to nearest 100 ha.

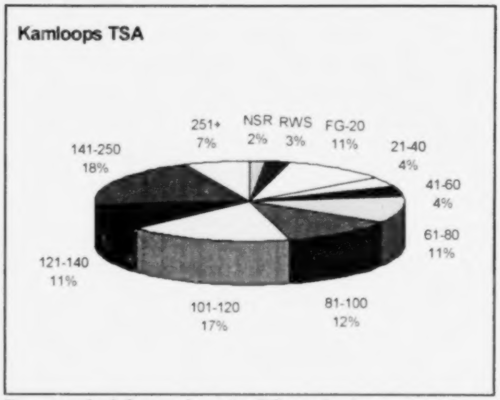
AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	2 393 180	2 393 180	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	286 000	∞
Total	2 393 180	2 679 180	+12.0
Woodlot AAC	Excluded from TSA AAC	23 500	

Harvest Forecast

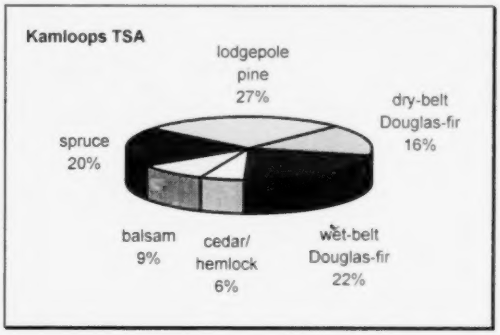


Age Class



Data scaled from chart in TS analysis report. Stands managed for selection harvest and for late winter caribou habitat not included (22% of THLB in total).

Tree Species



2.0 Issues (from Atherton and Associates Incremental Silviculture Strategy)

2.1 TSA timber supply is sensitive to green-up constraints. Anything reducing green-up timeframes will increase available timber supply.

2.2 Reducing minimum harvest ages 20 years and increasing existing stand volumes 10% can each extend existing harvest levels several decades. Focusing incremental silviculture on these two factors would serve to either mitigate potential reductions or extend existing harvest levels.

2.3 Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot.

2.4 As is the case in virtually all TSA's, the long term timber supply is sensitive to changes in regenerated stand volumes. Every 1% increase or decrease in regenerated volume results in a more or less corresponding 1% change in LTHL.

3.0 Silviculture History – backlog and incremental

Average Hectares Treated per year (approx. 5 year average)		
Activity	Clearwater District	Kamloops District
Site preparation	1,480	50
Planting	2,060	50
Brushing	1,030	225
Spacing	240	1,300
Pruning	180	180
Fertilization	20	5
Surveys	26,900	7,200

4.0 Opportunities to Increase Timber Supply

4.1 Backlog and incremental reforestation enhance timber supply by putting NSR areas back into forest production. The Kamloops LRMP commits to reclassifying and/or restocking all backlog NSR by the year 2000. This goal is not attainable but all backlog reforestation is deemed a high priority in this TSA.

4.2 A program of fertilization of suitable stands to increase the harvests from existing stands would extent the current harvest levels further into the future. Fertilization to date has been limited to second growth spaced and pruned stands. Significant planning work needs to be carried out to implement a large fertilization program.

4.3 A juvenile spacing program in younger existing stands will ensure that managed stand yields can be achieved. Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. Incremental silviculture practices (spacing) may also be able to accelerate stand development so that merchantability and mature cover characteristics are achieved earlier than in the base case timber supply scenario.

4.4 In the timber supply analysis, substantial reductions were made to regenerated stand volumes through increased TIPSY OAF1 and OAF2 factors. There are opportunities to increase long term timber supply through obtaining higher and more uniform stocking in these stands and through overcoming losses to root rots.

	Potential Strategies	
Response Time Frame	Strategy/Action	Anticipated Result
Short Term	Increase the fertilization of existing suitable stands to reduce minimum harvest ages and increase existing stand volumes. Continue juvenile spacing excessively dense stands to ensure managed stand yields are achieved. Complete backlog reclassification and reforestation program.	Extend current harvest levels.
Mid Term	Continue programs 1 and 2 above.	Extend the current harvest level.
Long Term	Increase regenerated stand volumes by: Repeat fertilization of suitable stands. Ensure full stocking of all regenerated stands. Manage forest health issues, reducing OAF2. Use of Class A seed or better on all planted stands.	Increase long term harvest levels.

5.0 Opportunities to Improve Timber Quality

Pruning has been practised recently in the TSA. Pruning early, prior to achieving a 3m lift, is/was a common practice. This practice ensured a smaller knotty core and maintained more live crown. While high priority pruning opportunities are declining, there are a number of second entries remaining on those stands where a 3 m lift was not attained.

6.0 Habitat Supply

No TSA-specific issues were identified. Table F summarizes habitat supply activities for the whole Kamloops Forest Region. The only activity proposed in addition to Table F is completion of stand density habitat studies being conducted on TFL 49.

7.0 Working Targets

A forest-level (called a "Type1") silviculture analysis will be conducted for the Kamloops TSA in the fall and winter of 1999/2000. Recommended investment levels from that analysis should be available for the 2001/02 RMP.

8.0 Silviculture Program

See attached tables A, B, C, D, E and G in the Appendices Section 10.0. These Silviculture and Forest Health programs are compiled by Forest District.

Table A – Backlog Reforestation
Activities include silviculture surveys, fill-planting, and brushing with the continuing objective of treating pre-87 harvested stands to reach free growing status.

Backlog reforestation enhances timber supply by putting NSR areas back into forest production. These sites did not have today's reforestation and stand tending obligations so they are often partly restocked with a variety of trees and brush species. As a result, a significant portion of this program involves assessing and correctly classifying sites through silviculture surveys.

Table B – Stand Tending Activities
Activities included are planning/surveys/prescriptions, juvenile spacing, pruning, and fertilizing studies. Planning/surveys/prescriptions are a high priority to support the field activities.

Table C – Forest Health Enhancement Activities
A minor amount of planning/survey/prescriptions, stand rehabilitation and pruning is planned for enhancement of second growth stands.

Table D – Forest Health Maintenance Activities (not FRBC eligible)
This table includes activities and goals necessary to support the Forest Health program of the Ministry of Forests. The program focuses mainly on detection, planning, and treatments of beetle and budworm infested mature stands. These activities serve to maintain existing AAC and reduce losses.

Table E – Current Fire and Pest Activities (not FRBC eligible)
Planned activities under this program include surveys, snag falling, and planting, aerial seeding and brushing in areas denuded by fire or pests or other factors. Future goals may increase if areas burned in summer of 1998 do not reforest naturally. These activities will put NSR land back into forest production.

Table G – Incremental Reforestation
Activities are primarily surveys and assessments of poorly performing stands and planting harvested areas exempted from basic reforestation obligations (i.e.- SP exempt areas).

9.0 Job Outcomes

Job outcomes are provided in the Regional RMP roll-up.

10.0 Appendices

Kamloops TSA Summary Tables
- FRBC Eligible Priority Activities
- MOF Responsibility Priority Activities

Clearwater Forest District Tables A – G & Summary Table

Kamloops Forest District Tables A – G & Summary Table

SH Priorities -- Kamloops TSA Summary

FRBC Eligible Activities															
						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000 / 2001	2001 / 2002	2002 / 2003	2003 / 2004	2004 / 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	4	Brushing	1100	1100	1100	1100	1100		1650	1.5	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Impeded	4	Brushing	105	0	0	0	0		61.74	0.588	1	0
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	6	Max. density spacing	150	150	150	150	0		300	2	1	0
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	1	Planning/surveys/presc.	23000	17500	17500	12000	9000		690	0.03	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Legal	1	Planning/surveys/presc.	5500	5000	4000	3500	2500		110	0.02	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Backlog	1	Planning/surveys/presc.	2500	2000	2000	2000	2000		50	0.02	1	0
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	3	Planting	800	200	150	150	35		320	0.4	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Legal	3	Planting	250	50	20	20	0		125	0.5	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Backlog	4	Planting	70	230	240	240	100		35	0.5	1	0
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	5	Seed Purchase	800000	200000	150000	150000	75000		384	0.00048	1	0

Kamloops TSA -- Kamloops Forest District	A	Backlog	Legal	5	Seed Purchase	50	20	20	0	0		17.5	0.35	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Backlog	6	Seed Purchase	70	50	50	50	50		22.5	0.32143	1	0
Kamloops TSA -- Clearwater Forest District	A	Backlog	Legal	2	Site preparation	350	50	35	25	0		280	0.8	1	0
Kamloops TSA -- Kamloops Forest District	A	Backlog	Legal	2	Site preparation	100	20	20	0	0		75	0.75	1	0
Kamloops TSA -- Clearwater Forest District	C	FH Enhancement		5	Others	1000	1000	1000	1000	1000		30	0.03	1	0
Priority 1 subtotal												4151			
Kamloops TSA -- Kamloops Forest District	A	Backlog	Backlog	3	Site Restoration Road/land. rehab	30	50	50	50	50		45	1.5	2	0
Kamloops TSA -- Clearwater Forest District	B	Stand Tending		1	Planning/surveys/presc.	3,000	3,000	3,000	3,000	3,000		75	0	2	0
Kamloops TSA -- Kamloops Forest District	B	Stand Tending		1	Planning/surveys/presc.	6630	6630	6630	6630	6630		237	0.03575	2	0
Kamloops TSA -- Clearwater Forest District	B	Stand Tending		2	Spacing	176	495	217	51	121		176	1	2	0
Kamloops TSA -- Clearwater Forest District	C	FH Enhancement		3	Pruning	100	50	50	50	50		120	1	2	0
Kamloops TSA -- Kamloops Forest District	C	FH Enhancement		3	Pruning	50	50	50	50	50		50	1	2	0
Kamloops TSA -- Clearwater Forest District	C	FH Enhancement		1	Site rehab	100	100	100	100	100		120	1	2	0

Kamloops TSA -- Clearwater Forest District	G	Incremental Reforestation					470	470	470	470	470		222	0	2	0
Kamloops TSA -- Kamloops Forest District	G	Incremental Reforestation					50.014	50	50	50	50		100	1.99944	2	0
Priority 2 subtotal													1145			
Kamloops TSA -- Kamloops Forest District	B	Stand Tending		4	Fertilizing		100	100	100	100	100		30	0.3	3	0
Kamloops TSA -- Kamloops Forest District	B	Stand Tending		2	Spacing		433	433	433	433	433		300	0.69284	3	0
Kamloops TSA -- Kamloops Forest District	C	FH Enhancement		5	Others		1	1	1	1	1		25	25	3	0
Kamloops TSA -- Kamloops Forest District	C	FH Enhancement		4	Studies		40	40	40	40	40		45	1.125	3	0
Kamloops TSA -- Clearwater Forest District	B	Stand Tending		3	Pruning		350	303	256	335	128		490	1.44	3	0
Priority 3 subtotal													890			
Kamloops TSA -- Kamloops Forest District	B	Stand Tending		3	Pruning		50	50	75	75	75		50	1	4	0
Priority 4 subtotal													50			
TOTAL													6236			

SH Priorities -- Kamloops TSA Summary

MOF Responsibility																
							Five-Year Plan Goals (ha)						Annual Plan 2000/01			

Management Unit	Table and category			Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	6	Defoliator spraying (ha)	19000	19000	19000	19000	19000		550	0.02895	1	0
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	3	Fall & burn treatment (trees)	1150	1150	1150	1150	1150		85	0.07391	1	0
Kamloops TSA -- Clearwater Forest District	D	FH Maintenance	1	Ground Surveys (ha)	1,789	1,789	1,789	1,789	1,789		36	0	1	0
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	1	Ground Surveys (ha)	2700	2700	2700	2700	2700		95	0.03519	1	0
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	4	MSMA treatment (trees)	900	900	900	900	900		45	0.05	1	0
Kamloops TSA -- Clearwater Forest District	D	FH Maintenance	5	Pheromone baiting (trees)	400	400	400	400	400		8	0	1	0
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	5	Pheromone baiting (trees)	500	500	500	500	500		10	0.02	1	0

Kamloops TSA -- Clearwater Forest District	E	Current Fire/Pest	1	Planning/surveys/ presc.	1,500	0	1,500	0	1,500		45	0	1	0
Kamloops TSA -- Kamloops Forest District	E	Current Fire/Pest	1	Planning/surveys/ presc.	500	250	0	700	300		12.5	0.025	1	0
Kamloops TSA -- Clearwater Forest District	E	Current Fire/Pest	2	Site preparation	250	0	0	0	0		250	1	1	0
Kamloops TSA -- Kamloops Forest District	E	Current Fire/Pest	2	Site preparation	250	0	0	0	0		150	0.6	1	0
Priority 1 subtotal											1286			
Kamloops TSA -- Clearwater Forest District	D	FH Maintenance	3	Fall & burn treatment (trees)	400	400	400	400	400		40	0	2	0
Kamloops TSA -- Clearwater Forest District	D	FH Maintenance	4	MSMA treatment (trees)	450	450	450	450	450		23	0	2	0
Priority 2 subtotal											63			
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	8	Other	1	1	1	1	1		30	30	3	0
Kamloops TSA -- Kamloops Forest District	D	FH Maintenance	7	Studies (number)	1	1	1	1	1		35	35	3	0
Priority 3 subtotal											65			

Kamloops TSA -- Clearwater Forest District
Table A: Backlog Activities
Sept. 20/99

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	23000	17500	17500	12000	9000	$690	0.03	1
2	Site preparation	350	50	35	25	0	280	0.80	1
3	Planting	800	200	150	150	35	320	0.40	1
4	Brushing	1100	1100	1100	1100	1100	1,650	1.50	1
5	Seed purchase = K	800000	200000	150000	150000	75000	384	0.00	1
6	Max. density spacing	150	150	150	150	0	300	2.00	1
7	Pruning	0	0	0	0	0	0	0.00	0
	Totals	825400	219000	168935	163425	85135	3624	0.00	
Backlog Reforestation									
1	Planning/surveys/prescriptions	0	0	0	0	0	$0	0.00	0
2	Site preparation	0	0	0	0	0	0	0.00	0
3	Site restoration road/land. rehab	0	0	0	0	0	0	0.00	0
4	Planting	0	0	0	0	0	0	0.00	0
5	Brushing	0	0	0	0	0	0	0.00	0
6	Seed purchase	0	0	0	0	0	0	0.00	0
	Totals	0	0	0	0	0	$0	0.00	
Impeded areas									
1	Planning/surveys/prescriptions	0	0	0	0	0	$0	0.00	0
2	Site preparation	0	0	0	0	0	0	0.00	0
3	Planting	0	0	0	0	0	0	0.00	0
4	Brushing	0	0	0	0	0	0	0.00	0
5	Seed purchase	0	0	0	0	0	0	0.00	0
	Totals	0	0	0	0	0	$0	0.00	
Backlog Activities - Management Unit Total									
1	Planning/surveys/prescriptions	23000	17500	17500	12000	9000	$690	0.03	
2	Site preparation	350	50	35	25	0	280	0.80	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0.00	
4	Planting	800	200	150	150	35	320	0.40	
5	Brushing	1100	1100	1100	1100	1100	1,650	1.50	
6	Seed purchase	800000	200000	150000	150000	75000	384	0.00	
7	Max. density spacing	150	150	150	150	0	300	2.00	
8	Pruning	0	0	0	0	0	0	0.00	
9	Studies	0	0	0	0	0	0	0.00	0
	Totals	825400	219000	168935	163425	85135	$3,624	0.00	

Kamloops TSA -- Clearwater Forest District

Kamloops TSA -- Clearwater Forest District

Table B: Stand Tending Activities

Sept. 20/99

	Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	3000	3000	3000	3000	3000	$75	$0	2
2	Spacing	176	495	217	51	122	176	1	2
3	Pruning	350	303	256	335	128	490	1	3
4	Fertilizing	0	0	0	0	0	0	0	0
5	Studies	0	0	0	0	0	0	0	0
6	Other	0	0	0	0	0	0	0	0
	Totals	3526	3798	3473	3386	3250	741	$0	

Kamloops TSA -- Clearwater Forest District

Table C: Forest Health Enhancement Activities

Sept. 20/99

	Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Site rehab, stumping,pop up	100	100	100	100	100	$120	$1	2
2	Spacing	0	0	0	0	0	0	0	0
3	Pruning , white pine	100	50	50	50	50	120	1	2
4	Studies	0	0	0	0	0	0	0	0

5	Others Surveys	1000	1000	1000	1000	1000	30	0	1
	Totals	1200	1150	1150	1150	1150	$270	$0	

Kamloops TSA -- Clearwater Forest District

Table D: Forest Health Maintenance Activities

Sept. 20/99

	Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
			2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Ground Surveys	ha	1789	1789	1789	1789	1789	$36	$0	1
2	Aerial Surveys, by heli	hours of flying time	70	70	70	70	70	56	1	1
3	Fall and burn treatment	trees	400	400	400	400	400	40	0	2
4	MSMA treatment	trees	450	450	450	450	450	23	0	2
5	Pheromone baiting	trees	400	400	400	400	400	8	0	1
6	Defoliator spraying	ha	0	0	0	0	0	0	0	0
7	Studies	number	0	0	0	0	0	0	0	0
8	Other		0	0	0	0	0	0	0	0
	Totals		3109	3109	3109	3109	3109	$162	$0	

Kamloops TSA -- Clearwater Forest District

Table E: Current Fire and Pest Activities

Sept. 20/99

	Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	1500	0	1500	0	1500	$45	$0	1
2	Site preparation	250	0	0	0	0	250	1	1
3	Planting	0	250	0	0	0	0	0	0
4	Brushing	0	0	250	0	250	0	0	0
5	Max. density spacing	0	0	50	50	50	0	0	0
6	Studies	0	0	0	0	0	0	0	0
7	Other	0	0	0	0	0	0	0	0
	Totals	$1,750	$250	$1,800	$50	$1,800	$295	$0	

Kamloops TSA -- Clearwater Forest District

Table F: Habitat Supply Activities

Sept. 20/99

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Spacing	0	0	0	0	0	0	0	0
6	Pruning	0	0	0	0	0	0	0	0
7	Studies	0	0	0	0	0	0	0	0

8	Others	0	0	0	0	0	0	0	0
	Totals	0	0	0	0	0	$0	$0	

Kamloops TSA -- Clearwater Forest District
Table G: Incremental Reforestation
Sept. 20/99

Fill planting		Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	200	200	200	200	200	$6	$0	
2		0	0	0	0	0	0	0	
3		0	0	0	0	0	0	0	
4		0	0	0	0	0	0	0	
5		0	0	0	0	0	0	0	
	Totals	200	200	200	200	200	6	$0	

Rehabilitation of Poorly Performing Stands

1	Juvenile Spacing	150	150	150	150	150	$150	$1
2		0	0	0	0	0	0	0
3		0	0	0	0	0	0	0
4		0	0	0	0	0	0	0
5		0	0	0	0	0	0	0
	Totals	150	150	150	150	150	$150	$1

Road, Landing, Hillslope and Riparian

Reforestation

1	Landing Rehab	60	60	60	60	60	$33	$1
2	Planting	60	60	60	60	60	33	1
3		0	0	0	0	0	0	0
4		0	0	0	0	0	0	0
5		0	0	0	0	0	0	0
	Totals	120	120	120	120	120	$66	$1

Incremental Reforestation - Management Unit Total

470	470	470	470	470	222	$0	2

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)

Table A: Backlog Activities

Sept. 21, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	5500	5000	4000	3500	2500	$110	$0	1
2	Site preparation	100	20	20	0	0	75	1	1
3	Planting	250	50	20	20	0	125	1	1
4	Brushing	0	0	0	0	0	0	0	0
5	Seed purchase	50	20	20	0	0	18	0	1
6	Max. density spacing	0	0	0	0	0	0	0	0
7	Pruning	0	0	0	0	0	0	0	0
	Totals	5900	5090	4060	3520	2500	328	$0	

Backlog Reforestation

1	Planning/surveys/prescriptions	2500	2000	2000	2000	2000	$50	$0	1
2	Site preparation	0	90	80	80	0	0	0	0
3	Site restoration road/land. rehab	30	50	50	50	50	45	2	2
4	Planting	70	230	240	240	100	35	1	1
5	Brushing	0	0	0	0	0	0	0	0
6	Seed purchase	70	50	50	50	50	23	0	1
	Totals	2670	2420	2420	2420	2200	$153	$0	

Impeded areas

1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	105	0	0	0	0	62	1	1
5	Seed purchase	0	0	0	0	0	0	0	0
	Totals	105	0	0	0	0	$62	$1	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	8000	7000	6000	5500	4500	$160	$0

2	Site preparation	100	110	100	80	0	75	1	
3	Site restoration road/land. rehab	30	50	50	50	50	45	2	
4	Planting	320	280	260	260	100	160	0	
5	Brushing	105	0	0	0	0	62	1	
6	Seed purchase	120	70	70	50	50	40	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	8675	7510	6480	5940	4700	$542	$0	

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)

Table B: Stand Tending Activities

Sept. 21, 1999

	Activities	Five-year Plan Goals (ha)					Annual Pla
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)
1	Planning/surveys/prescriptions	6630	6630	6630	6630	6630	$237
2	Spacing	433	433	433	433	433	300
3	Pruning	50	50	75	75	75	50
4	Fertilizing	100	100	100	100	100	30
5	Studies	0	0	0	0	0	0
6	Other	0	0	0	0	0	0
	Totals	7213	7213	7238	7238	7238	617

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)
Table C: Forest Health Enhancement Activities

Sept. 21, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Site rehab	0	0	0	0	0	$0	$0	0
2	Spacing	0	0	0	0	0	0	0	0
3	Pruning	50	50	50	50	50	50	1	2
4	Studies	40	40	40	40	40	45	1	3
5	Others	1	1	1	1	1	25	25	3
	Totals	91	91	91	91	91	$120	$1	

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)
Table D: Forest Health Maintenance Activities

Sept. 21, 1999

	Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
			2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Ground Surveys	ha	2700	2700	2700	2700	2700	$95	$0	1
2	Aerial Surveys	hours of flying time	33	33	33	33	33	25	1	1
3	Fall and burn treatment	trees	1150	1150	1150	1150	1150	85	0	1
4	MSMA treatment	trees	900	900	900	900	900	45	0	1
5	Pheromone baiting	trees	500	500	500	500	500	10	0	1
6	Defoliator spraying	ha	19000	19000	19000	19000	19000	550	0	1
7	Studies	number	1	1	1	1	1	35	35	3
8	Other		1	1	1	1	1	30	30	3
	Totals		24285	24285	24285	24285	24285	$875	$0	

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)
Table E: Current Fire and Pest Activities
Sept. 21, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	500	250	0	700	300	$13	$0	1
2	Site preparation	250	0	0	0	0	150	1	1
3	Planting	0	250	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Max. density spacing	0	0	0	0	0	0	0	0
6	Studies	0	0	0	0	0	0	0	0
7	Other	0	0	0	0	0	0	0	0
	Totals	$750	$500	$0	$700	$300	$163	$0	

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)

Table F: Habitat Supply Activities

Sept. 21, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)
Table G: Incremental Reforestation
Sept. 21, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	50	50	50	50	50	$100	$2	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	50	50	50	50	50	$100	$2	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	50	50	50	50	50	100	$2	2

Kamloops TSA -- Kamloops Forest District (non TFL or IFPA)

Summary Table

Sept. 21, 1999

Table Totals	Five-Year Plan Goals (ha) 2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Annual Plan 2000/01 Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	8,675	7,510	6,480	5,940	4,700	542	0	
Table B: Stand Tending Activities	7,213	7,213	7,238	7,238	7,238	617	0	
Table C: Forest Health Enhancement Activities	91	91	91	91	91	120	1	
Table D: Forest Health Maintenance Activities	24,285	24,285	24,285	24,285	24,285	875	0	
Table E: Current Fire and Pest Activities	750	500	0	700	300	163	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	50	50	50	50	50	100	2	
Totals of all tables	41,064	39,649	38,144	38,304	36,664	2,416	4	

Table and category				Activity	Five-Year Plan Goals (ha) 2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Annual Plan 2000/01 Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	90	80	80	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0

A	Backlog Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	250	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
A	Backlog Legal	1	Planning/surveys/presc.	5,500	5,000	4,000	3,500	2,500	110	0	1	0
A	Backlog Legal	2	Site preparation	100	20	20	0	0	75	1	1	0
A	Backlog Legal	3	Planting	250	50	20	20	0	125	1	1	0
A	Backlog Legal	5	Seed Purchase	50	20	20	0	0	18	0	1	0
A	Backlog Backlog	1	Planning/surveys/presc.	2,500	2,000	2,000	2,000	2,000	50	0	1	0
A	Backlog Backlog	4	Planting	70	230	240	240	100	35	1	1	0
A	Backlog Backlog	6	Seed Purchase	70	50	50	50	50	23	0	1	0
A	Backlog Impeded	4	Brushing	105	0	0	0	0	62	1	1	0
D	FH Maintenance	1	Ground Surveys (ha)	2,700	2,700	2,700	2,700	2,700	95	0	1	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	33	33	33	33	33	25	1	1	0
D	FH Maintenance	3	Fall & burn treatment (trees)	1,150	1,150	1,150	1,150	1,150	85	0	1	0
D	FH Maintenance	4	MSMA treatment (trees)	900	900	900	900	900	45	0	1	0
D	FH Maintenance	5	Pheromone baiting (trees)	500	500	500	500	500	10	0	1	0
D	FH Maintenance	6	Defoliator spraying (ha)	19,000	19,000	19,000	19,000	19,000	550	0	1	0
E	Current Fire/Pest	1	Planning/surveys/presc.	500	250	0	700	300	13	0	1	0
E	Current Fire/Pest	2	Site preparation	250	0	0	0	0	150	1	1	0

A	Backlog Backlog	3	Site Restoration Road/land. rehab	30	50	50	50	50	45	2	2	0
B	Stand Tending	1	Planning/surveys/presc.	6,630	6,630	6,630	6,630	6,630	237	0	2	0
C	FH Enhancement	3	Pruning	50	50	50	50	50	50	1	2	0
G	Incremental Reforestation			50	50	50	50	50	100	2	2	0
B	Stand Tending	2	Spacing	433	433	433	433	433	300	1	3	0
B	Stand Tending	4	Fertilizing	100	100	100	100	100	30	0	3	0
C	FH Enhancement	4	Studies	40	40	40	40	40	45	1	3	0
C	FH Enhancement	5	Others	1	1	1	1	1	25	25	3	0
D	FH Maintenance	7	Studies (number)	1	1	1	1	1	35	35	3	0
D	FH Maintenance	8	Other	1	1	1	1	1	30	30	3	0
B	Stand Tending	3	Pruning	50	50	75	75	75	50	1	4	0
	Totals			41,064	39,649	38,144	38,304	36,664	$2,416			

Okanagan TSA Resource Management Plan for Sustainable Harvest

Discussion

Background

This resource management plan (RMP) is designed to provide guidance to Forest Renewal in determining the best investments to achieve its Sustainable Harvest Objective of investing in the production of faster-growing, higher quality stands of second-growth timber on lands available for timber production.

This RMP also provides a recommended list of activities and priorities to guide Ministry of Forests investments in the Forest Health Maintenance and Current Reforestation programs.

Each of the sustainable harvest programs has a Strategic Objective. This objective is the resource management target and is designed to guide what the program needs to achieve. The activities and investments within the program should all be directed towards achieving this objective. The Strategic Objectives for each program are as follows:

- Backlog Reforestation: To ensure prompt and effective reforestation, including stand tending on backlog sites until free growing stands are achieved.
- Stand Tending Activities: To manage incremental silviculture activities for their maximum resource benefits, including maintaining or enhancing fibre flow or fibre quality, for both the short and long term
- Forest Health Enhancement: To maintain or enhance fibre flow or fibre quality through activities that reduce forest health impacts to young stands.
- Forest Health Maintenance: To monitor and improve the health, vigour and productivity of the forest land base while minimizing unsalvaged losses caused by various damaging agents.
- Current Fire and Pest: To ensure prompt and effective reforestation of areas damaged or denuded by fire and pest events, and stand tending until free growing stands are achieved.
- Incremental Reforestation: To enhance fibre flow or fibre quality by fill-planting, identifying and replacing young stands whose growth performance is significantly depressed by genetic maladaptation, and by rehabilitation and reforestation of landings, skid trails and roads.

1.0 Basic TSA Data (from Atherton and Associates Incremental Silviculture Strategy)

Land Area

Description	Area (ha)	Area %
Total Area of TSA	2 173 300	100
Total Productive Crown Forest	1 403 300	65
Net Timber Harv. Land Base	1 039 100	48

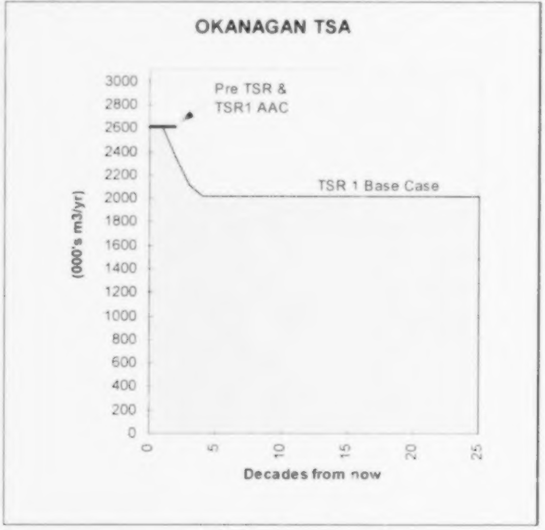
Source: TS analysis report - rounded to nearest 100 ha.

AAC

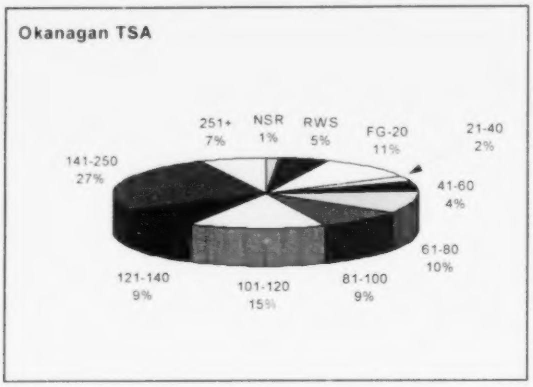
AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	2 615 000	2 615 000	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	-	
Total	2 615 000	2 615 000	0.0

Harvest Forecast

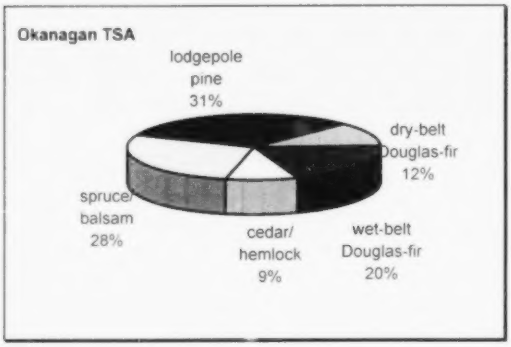
The initial harvest level of 2 615 000 m3 is maintained for 2 decades and then drops at a rate of 10% per decade over 2 decades to the LTHL of 2 022 000 m3/yr, a 23% reduction overall.



Age Class



Tree Species



2.0 Issues (from Atherton and Associates Incremental Silviculture Strategy)

2.1 TSA timber supply is sensitive to green-up constraints. Anything reducing green-up timeframes will increase available timber supply.

2.2 Community watershed issues may limit some treatment opportunities (e.g.- fertilization).

2.3 Spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot.

3.0 Silviculture History – backlog and incremental

Average Hectares Treated per year (approx. 5 year average)			
Activity	Salmon Arm	Vernon	Penticton
Site preparation			
Planting			
Brushing			
Spacing			
Pruning			
Fertilization			

Surveys			

4.0 Opportunities to Increase Timber Supply (mostly from Atherton & Associates' Incremental Silviculture Strategy)

- Backlog and incremental reforestation enhance timber supply by putting NSR areas back into forest production.
- This TSA's harvest forecast is very sensitive to existing stand volumes being overestimated. A program of fertilization of suitable stands to increase the harvests from existing stands would guard against the possibility of over-estimated volumes and extent the current harvest levels further into the future.
- A juvenile spacing program in younger existing stands will ensure that managed stand yields can be achieved. This program is concentrated in the southern half of the TSA due to timber types and the fact spacing opportunities in the ICH and wetter IDF subzones are limited by the presence of root rot. Incremental silviculture practices (spacing) may also be able to accelerate stand structure development so that merchantability and mature cover characteristics are achieved earlier than in the base case timber supply scenario.
- In the timber supply analysis, substantial reductions were made to regenerated stand volumes through increased TIPSY OAF1 and OAF2 factors. There are opportunities to increase long term timber supply through obtaining higher and more uniform stocking in these stands and through overcoming losses to root rots.

	Potential Strategies	
Response Time Frame	Strategy/Action	Anticipated Result
Short Term	Fertilize all suitable stands 10 years in advance of final harvest or commercial thinning. Continue juvenile spacing excessively dense stands to ensure managed stand yields are achieved. Complete backlog reclassification and reforestation program.	Extend current harvest levels beyond the 20 years currently projected.
Mid Term	Continue programs 1 and 2 above.	Extend the current harvest level.
Long Term	Increase regenerated stand volumes by: Repeat fertilization of suitable stands. Ensure full stocking of all regenerated stands. Manage forest health issues, reducing OAF2. Use of Class A seed or better on all planted stands.	Increase long term harvest levels eliminating the drop from current harvest levels.

5.0 Opportunities to Improve Timber Quality

Pruning has been practised recently in the TSA. Pruning early, prior to achieving a 3m lift, is/was a common practice. This practice ensured a smaller knotty core and maintained more live crown. While high priority pruning opportunities are declining, there are a number of second entries remaining on those stands where a 3 m lift was not attained and to protect against white pine blister rust.

6.0 Habitat Supply

No TSA-specific issues were identified. Table F summarizes habitat supply activities for the whole Kamloops Forest Region. The only activity proposed in addition to Table F is completion of stand density habitat studies being conducted on TFL 49.

7.0 Working Targets

A forest-level (called a "Type1") silviculture analysis will be conducted for the Okanagan TSA in the fall and winter of 1999/2000. Recommended investment levels from that analysis should be available for the 2001/02 RMP.

8.0 Silviculture Program

See attached tables A, B, C, D, E and G in the Appendices section 10.0. These Silviculture and Forest Health programs are compiled by Forest District.

Table A – Backlog Reforestation

Activities include silviculture surveys, fill-planting, and brushing with the continuing objective of treating pre-87 harvested stands to reach free growing status.

Backlog reforestation enhances timber supply by putting NSR areas back into forest production. These sites did not have today's reforestation and stand tending obligations so they are often partly restocked with a variety of trees and brush species. As a result, a significant portion of this program involves assessing and correctly classifying sites through silviculture surveys.

Table B – Stand Tending Activities

Activities included are planning/surveys/prescriptions, juvenile spacing, pruning, and fertilizing studies.

Planning/surveys/prescriptions are a high priority to support the field activities. These goals also include layout. Spacing of dense stands is primarily confined to drier lodgepole pine types in the southern half of the TSA. The main objective is to reduce rotation age to merchantability, improve merchantability, maintain or improve stand health, and manipulate species composition. Fertilization studies are included to provide the knowledge necessary to expand the operational program.

Pruning activities are included as primarily a social benefit to forest workers, and to complete partial lifts done previously. Pruning is a lesser priority than backlog or spacing.

Table C – Forest Health Enhancement Activities
A minor amount of planning/survey/prescriptions, stand rehabilitation and White Pine pruning is planned for enhancement of second growth stands.

Table D – Forest Health Maintenance Activities (not FRBC eligible)
This table includes activities and goals necessary to support the Forest Health program of the Ministry of Forests. The program focuses mainly on detection, planning, and treatments of beetle and budworm infested mature stands. These activities serve to maintain existing AAC and reduce losses.

Table E – Current Fire and Pest Activities (not FRBC eligible)
Planned activities under this program include surveys, snag falling, and planting, aerial seeding and brushing in areas denuded by fire or pests or other factors. Future goals may increase if areas burned in summer of 1998 do not reforest naturally. These activities will put NSR land back into forest production.

Table G – Incremental Reforestation
Activities are primarily surveys and assessments of poorly performing stands and planting harvested areas exempted from basic reforestation obligations (i.e.- SP exempt areas).

9.0 Job Outcomes

Job outcomes are provided in the Regional RMP roll-up.

10.0 Appendices

Okanagan TSA Summary Tables

- FRBC Eligible Priority Activities
- MOF Responsibility Priority Activities

Salmon Arm Forest District Tables A – G & Summary Table

Vernon Forest District Tables A – G & Summary Table

Penticton Forest District Tables A – G & Summary Table

SH Priorities -- Okanagan TSA Summary

FRBC Eligible Activities															
						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Legal	4	Brushing	30	50	50	50	50		15	1	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Impeded	4	Brushing	450	400	400	400	400		180	0	1	0
Vernon Forest District [TSA portion]	A	Backlog	Impeded	4	Brushing	50	25	25	0	0		25	0.5	1	0
Vernon Forest District [TSA portion]	A	Backlog	Backlog	5	Brushing	0	0	0	0	0		0	0	1	0
Okanagan TSA -- Penticton Forest District	A	Backlog	Legal	1	Planning/surveys/presc.	100	100	100	0	0		2	0.02	1	0
Okanagan TSA -- Penticton Forest District	A	Backlog	Backlog	1	Planning/surveys/presc.	200	200	200	200	200		4	0.02	1	0
Okanagan TSA -- Penticton Forest District	A	Backlog	Impeded	1	Planning/surveys/presc.	200	200	200	200	200		4	0.02	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Legal	1	Planning/surveys/presc.	200	200	200	200	200		5	0	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Backlog	1	Planning/surveys/presc.	5,000	5,000	5,000	5,000	5,000		125	0	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Impeded	1	Planning/surveys/presc.	500	500	500	500	500		12	0	1	0
Vernon Forest District [TSA portion]	A	Backlog	Backlog	1	Planning/surveys/presc.	4000	4000	4000	4000	3000		80	0.02	1	0

OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Legal	3	Planting		194	50	50	50	50		155	1	1	0
Okanagan TSA -- Penticton Forest District	A	Backlog	Backlog	4	Planting		30	30	30	0	0		15	0.5	1	0
Vernon Forest District [TSA portion]	A	Backlog	Backlog	4	Planting		40	25	0	0	0		25	0.625	1	0
Okanagan TSA -- Penticton Forest District	A	Backlog	Backlog	6	Seed Purchase		30	30	30	0	0		10	0.33333	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	A	Backlog	Legal	2	Site preparation		40	20	20	20	20		34	1	1	0
Vernon Forest District [TSA portion]	A	Backlog	Backlog	2	Site preparation		0	0	0	0	0		0	0	1	0
Okanagan TSA -- Penticton Forest District	B	Stand Tending		1	Planning/surveys/presc.		3000	3000	3000	3000	3000		90	0.03	1	0
Okanagan TSA -- Penticton Forest District	B	Stand Tending		2	Spacing		800	800	800	500	500		560	0.7	1	0
Okanagan TSA -- Penticton Forest District	C	FH Enhancement		5	Others		150	150	0	0	0		4.5	0.03	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	C	FH Enhancement		3	Pruning		125	125	125	125	125		38	0	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	G	Incremental Reforestation					370	370	400	400	400		211	1	1	0
Priority 1 subtotal													**1,595**			
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	B	Stand Tending		4	Fertilizing		1,200	1,200	1,200	1,200	1,200		300	0	2	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	B	Stand Tending		1	Planning/surveys/presc.		300	300	300	300	300		27	0	2	0
Vernon Forest District [TSA portion]	B	Stand Tending		1	Planning/surveys/presc.		4000	4000	4000	3000	3000		80	0.02	2	0
Okanagan TSA -- Penticton Forest	B	Stand		3	Pruni		50	50	50	50	50		50	1	2	0

District		Tending		ng											
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	B	Stand Tending	3	Pruning		200	200	200	200	200		280	1	2	0
Vernon Forest District [TSA portion]	B	Stand Tending	3	Pruning		250	250	250	250	250		200	0.8	2	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	B	Stand Tending	2	Spacing		50	50	50	50	50		50	1	2	0
Vernon Forest District [TSA portion]	B	Stand Tending	2	Spacing		400	400	400	400	400		240	0.6	2	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	B	Stand Tending	5	Studies		1,000	500	500	500	500		30	0	2	0
Vernon Forest District [TSA portion]	B	Stand Tending	5	Studies		10	0	0	0	0		30	3	2	0
Okanagan TSA -- Penticton Forest District	G	Incremental Reforestation				500.014	500	500	500	500		10	0.02	2	0
Vernon Forest District [TSA portion]	G	Incremental Reforestation				50.013	50	50	50	50		25	0.49987	2	0
Priority 2 subtotal												**1,322**			

SH Priorities -- Okanagan TSA Summary

MOF Responsibility

					Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	**Table and category**			**Activity**	2000/2001	2001/2002	2002/2003	2003/2004	2004/2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Okanagan TSA -- Penticton Forest District	D	FH Maintenance	2	Aerial Surveys (hours flying)	15	15	15	15	15		11.5	0.76667	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	2	Aerial Surveys (hours flying)	45	45	45	45	45		41	1	1	0
Vernon Forest District [TSA portion]	D	FH Maintenance	2	Aerial Surveys (hours flying)	40	40	40	40	40		32	0.8	1	0
Okanagan TSA -- Penticton Forest District	D	FH Maintenance	6	Defoliator spraying (ha)	5000	2500	2500	1000	0		125	0.025	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	3	Fall & burn treatment (trees)	1,000	1,000	1,000	1,000	1,000		50	0	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	1	Ground Surveys (ha)	3,000	3,000	3,000	3,000	3,000		75	0	1	0

Vernon Forest District [TSA portion]	D	FH Maintenance	1	Ground Surveys (ha)	10000	12000	12000	12000	12000		175	0.0175	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	4	MSMA treatment (trees)	1,000	1,000	1,000	1,000	1,000		25	0	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	5	Pheromone baiting (trees)	400	400	400	400	400		10	0	1	0
Vernon Forest District [TSA portion]	D	FH Maintenance	5	Pheromone baiting (trees)	1500	1500	1500	1500	1500		20	0.01333	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	7	Studies (number)	3	3	3	3	3		30	10	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	E	Current Fire/Pest	4	Brushing	5	25	25	25	0		3	1	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	E	Current Fire/Pest	7	Other	50	0	0	0	0		10	0	1	0
Okanagan TSA -- Penticton Forest District	E	Current Fire/Pest	1	Planning/surveys/presc.	1000	1000	0	0	0		14	0.005	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	E	Current Fire/Pest	1	Planning/surveys/presc.	1,000	500	500	500	500		25	0	1	0
Vernon Forest District [TSA portion]	E	Current Fire/Pest	1	Planning/surveys/presc.	300	300	200	200	100		6	0.02	1	0
OKANAGAN TSA--SALMON ARM FOREST DISTRICT	E	Current Fire/Pest	3	Planting	20	0	0	0	0		12	1	1	0
Vernon Forest District [TSA portion]	E	Current Fire/Pest	3	Planting	10	20	20	20	20		7	0.7	1	0
Vernon Forest District [TSA portion]	E	Current Fire/Pest	2	Site preparation	10	0	0	0	0		5	0.5	1	0
Priority 1 subtotal											**676**			

OKANAGAN TSA--SALMON ARM FOREST DISTRICT	D	FH Maintenance	6	Defoliator spraying (ha)	1,000	1,000	1,000	1,000	1,000		50	0	2	0
Vernon Forest District [TSA portion]	D	FH Maintenance	3	Fall & burn treatment (trees)	200	200	200	200	200		6	0.03	2	0
Okanagan TSA -- Penticton Forest District	D	FH Maintenance	4	MSMA treatment (trees)	250	250	250	250	250		5.5	0.022	2	0
Vernon Forest District [TSA portion]	D	FH Maintenance	4	MSMA treatment (trees)	900	1000	1100	1200	1200		8	0.00889	2	0
Okanagan TSA -- Penticton Forest District	D	FH Maintenance	5	Pheromone baiting (trees)	1000	1000	500	500	250		16	0.016	2	0
Priority 2 subtotal											**70**			

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT

Table A: Backlog Activities

Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	200	200	200	200	200	$5	$0	1
2 Site preparation	40	20	20	20	20	34	1	1
3 Planting	194	50	50	50	50	155	1	1
4 Brushing	30	50	50	50	50	15	1	1
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	20	0	20	0	0	0	0
Totals	464	340	320	340	320	209	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	5000	5000	5000	5000	5000	$125	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	0	0	0	0	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	0	0	0	0	0	0	0	0
Totals	5000	5000	5000	5000	5000	$125	$0	
Impeded areas								
1 Planning/surveys/prescriptions	500	500	500	500	500	$12	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	450	400	400	400	400	180	0	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	950	900	900	900	900	$192	$0	
Backlog Activities - Management Unit Total								
1 Planning/surveys/prescriptions	5700	5700	5700	5700	5700	$142	$0	
2 Site preparation	40	20	20	20	20	34	1	
3 Site restoration	0	0	0	0	0	0	0	

	road/land. rehab								
4	Planting	194	50	50	50	50	155	1	
5	Brushing	480	450	450	450	450	195	0	
6	Seed purchase	0	0	0	0	0	0	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	20	0	20	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	6414	6240	6220	6240	6220	$526	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT
Table B: Stand Tending Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	300	300	300	300	300	$27	$0	2
2 Spacing	50	50	50	50	50	50	1	2
3 Pruning	200	200	200	200	200	280	1	2
4 Fertilizing	1200	1200	1200	1200	1200	300	0	2
5 Studies	1000	500	500	500	500	30	0	2
6 Other	0	0	0	0	0	0	0	0
Totals	2750	2250	2250	2250	2250	687	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT

Table C: Forest Health Enhancement Activities

Prepared: August 26, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning-Pw	125	125	125	125	125	38	0	1
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	125	125	125	125	125	$38	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT

Table D: Forest Health Maintenance Activities

Prepared: August 26, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	3000	3000	3000	3000	3000	$75	$0	1
2 Aerial Surveys	hours of flying time	45	45	45	45	45	41	1	1
3 Fall and burn treatment	trees	1000	1000	1000	1000	1000	50	0	1
4 MSMA treatment	trees	1000	1000	1000	1000	1000	25	0	1
5 Pheromone baiting	trees	400	400	400	400	400	10	0	1
6 Defoliator spraying	ha	1000	1000	1000	1000	1000	50	0	2
7 Studies	number	3	3	3	3	3	30	10	1
8 Other		0	0	0	0	0	0	0	0
Totals		6448	6448	6448	6448	6448	$281	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT
Table E: Current Fire and Pest Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	1000	500	500	500	500	$25	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	20	0	0	0	0	12	1	1
4 Brushing	5	25	25	25	0	3	1	1
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other--Aerial Seeding	50	0	0	0	0	10	0	1
Totals	$1,075	$525	$525	$525	$500	$50	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT
Table F: Habitat Supply Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT

Table G: Incremental Reforestation

Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1 Planning/surveys/prescriptions	100	100	100	100	100	$9	$0	1
2 site preparation	60	60	60	60	60	48	1	1
3 planting	60	60	60	60	60	36	1	1
4 brushing	0	0	30	30	30	0	0	1
5	0	0	0	0	0	0	0	
Totals	220	220	250	250	250	$93	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1 planning/surveys/prescriptions	100	100	100	100	100	$18	$0	2
2 rehabilitation & planting	50	50	50	50	50	100	2	2
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	

5	0	0	0	0	0	0	0
Totals	150	150	150	150	150	$118	$1

Incremental Reforestation - Management

Unit Total

370	370	400	400	400	211	$1	1

OKANAGAN TSA -- SALMON ARM FOREST DISTRICT

Summary Table

Prepared: August 26, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	6,414	6,240	6,220	6,240	6,220	526	0	
Table B: Stand Tending Activities	2,750	2,250	2,250	2,250	2,250	687	0	
Table C: Forest Health Enhancement Activities	125	125	125	125	125	38	0	
Table D: Forest Health Maintenance Activities	6,448	6,448	6,448	6,448	6,448	281	0	
Table E: Current Fire and Pest Activities	1,075	525	525	525	500	50	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	370	370	400	400	400	211	1	
Totals of all tables	17,182	15,958	15,968	15,988	15,943	1,793	1	

Table and category		Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
				2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog Legal	7	Pruning	0	20	0	20	0	0	0	0	0
A	Backlog Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog Backlog	4	Planting	0	0	0	0	0	0	0	0	0
A	Backlog Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog Backlog	6	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0

C FH Enhancement	1 Site rehabilitation	0	0	0	0	0	0	0	0	0
C FH Enhancement	2 Spacing	0	0	0	0	0	0	0	0	0
C FH Enhancement	4 Studies	0	0	0	0	0	0	0	0	0
C FH Enhancement	5 Others	0	0	0	0	0	0	0	0	0
D FH Maintenance	8 Other	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	2 Site preparation	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	5 Max. density spacing	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	6 Studies	0	0	0	0	0	0	0	0	0
F Habitat Supply	1 Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F Habitat Supply	2 Site preparation	0	0	0	0	0	0	0	0	0
F Habitat Supply	3 Planting	0	0	0	0	0	0	0	0	0
F Habitat Supply	4 Brushing	0	0	0	0	0	0	0	0	0
F Habitat Supply	5 Spacing	0	0	0	0	0	0	0	0	0
F Habitat Supply	6 Pruning	0	0	0	0	0	0	0	0	0
F Habitat Supply	7 Studies	0	0	0	0	0	0	0	0	0
F Habitat Supply	8 Others	0	0	0	0	0	0	0	0	0
A Backlog Legal	1 Planning/surveys/presc.	200	200	200	200	200	5	0	1	0
A Backlog Legal	2 Site preparation	40	20	20	20	20	34	1	1	0
A Backlog Legal	3 Planting	194	50	50	50	50	155	1	1	0
A Backlog Legal	4 Brushing	30	50	50	50	50	15	1	1	0
A Backlog Backlog	1 Planning/surveys/presc.	5,000	5,000	5,000	5,000	5,000	125	0	1	0
A Backlog Impeded	1 Planning/surveys/presc.	500	500	500	500	500	12	0	1	0
A Backlog Impeded	4 Brushing	450	400	400	400	400	180	0	1	0
FH Enhancement	3 Pruning	125	125	125	125	125	38	0	1	0

D	FH Maintenance	1	Ground Surveys (ha)	3,000	3,000	3,000	3,000	3,000	75	0	1	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	45	45	45	45	45	41	1	1	0
D	FH Maintenance	3	Fall & burn treatment (trees)	1,000	1,000	1,000	1,000	1,000	50	0	1	0
D	FH Maintenance	4	MSMA treatment (trees)	1,000	1,000	1,000	1,000	1,000	25	0	1	0
D	FH Maintenance	5	Pheromone baiting (trees)	400	400	400	400	400	10	0	1	0
D	FH Maintenance	7	Studies (number)	3	3	3	3	3	30	10	1	0
E	Current Fire/Pest	1	Planning/surveys/presc.	1,000	500	500	500	500	25	0	1	0
E	Current Fire/Pest	3	Planting	20	0	0	0	0	12	1	1	0
E	Current Fire/Pest	4	Brushing	5	25	25	25	0	3	1	1	0
E	Current Fire/Pest	7	Other	50	0	0	0	0	10	0	1	0
G	Incremental Reforestation			370	370	400	400	400	211	1	1	0
B	Stand Tending	1	Planning/surveys/presc.	300	300	300	300	300	27	0	2	0
B	Stand Tending	2	Spacing	50	50	50	50	50	50	1	2	0
B	Stand Tending	3	Pruning	200	200	200	200	200	280	1	2	0
B	Stand Tending	4	Fertilizing	1,200	1,200	1,200	1,200	1,200	300	0	2	0
B	Stand Tending	5	Studies	1,000	500	500	500	500	30	0	2	0

D	FH Maintenance	6	Defoliator spraying (ha)	1,000	1,000	1,000	1,000	1,000	50	0	2	0
Totals				17,182	15,958	15,968	15,988	15,943	$1,793			

OKANAGAN TSA -- VERNON FOREST DISTRICT

Table A: Backlog Activities

Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01			
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority	
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0	
2 Site preparation	0	0	0	0	0	0	0	0	
3 Planting	0	0	0	0	0	0	0	0	
4 Brushing	0	0	0	0	0	0	0	0	
5 Seed purchase	0	0	0	0	0	0	0	0	
6 Max. density spacing	0	0	0	0	0	0	0	0	
7 Pruning	0	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0		
Backlog Reforestation									
1 Planning/surveys/prescriptions	4000	4000	4000	4000	3000	$80	$0	1	
2 Site preparation	0	0	0	0	0	0		1	
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0	
4 Planting	40	25	0	0	0	25	1	1	on line seedlings
5 Brushing	0	0	0	0	0	0	0	1	
6 Seed purchase	0	0	0	0	0	0	0	0	
Totals	4040	4025	4000	4000	3000	$105	$0		
Impeded areas									
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0	
2 Site preparation	0	0	0	0	0	0	0	0	
3 Planting	0	0	0	0	0	0	0	0	
4 Brushing	50	25	25	0	0	25	1	1	*dependent on field reviews
5 Seed purchase	0	0	0	0	0	0	0	0	
Totals	50	25	25	0	0	$25	$0		

Backlog Activities - Management Unit Total

1 Planning/surveys/prescriptions	4000	4000	4000	4000	3000	$80	$0	
2 Site preparation	0	0	0	0	0	0	0	
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	
4 Planting	40	25	0	0	0	25	1	
5 Brushing	50	25	25	0	0	25	0	
6 Seed purchase	0	0	0	0	0	0	0	
7 Max. density spacing	0	0	0	0	0	0	0	
8 Pruning	0	0	0	0	0	0	0	
9 Studies	0	0	0	0	0	0	0	0
Totals	4090	4050	4025	4000	3000	$130	$0	

OKANAGAN TSA -- VERNON FOREST DISTRICT

Table B: Stand Tending Activities

Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Pri
1 Planning/surveys/prescriptions	4000	4000	4000	3000	3000	$80	$0	
2 Spacing	400	400	400	400	400	240	1	
3 Pruning	250	250	250	250	250	200	1	
4 Fertilizing	0	0	0	0	0	0	0	
5 Studies	10	0	0	0	0	30	3	
6 Other	0	0	0	0	0	0	0	
Totals	4660	4650	4650	3650	3650	550	$0	

Note: Priorities lower than
backlog
but still very important to
maintain
workforce and improve
stand quality

OKANAGAN TSA -- VERNON FOREST DISTRICT
Table C: Forest Health Enhancement Activities
Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

*white pine pruning for rust will
be
done under pruning/stand tending

OKANAGAN TSA -- VERNON FOREST DISTRICT

Table D: Forest Health Maintenance Activities

Prepared: August 27, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	Units	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	10000	12000	12000	12000	12000	$175	$0	1
2 Aerial Surveys	hours of flying time	40	40	40	40	40	32	1	1
3 Fall and burn treatment	trees	200	200	200	200	200	6	0	2
4 MSMA treatment	trees	900	1000	1100	1200	1200	8	0	2
5 Pheromone baiting	trees	1500	1500	1500	1500	1500	20	0	1
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		12640	14740	14840	14940	14940	$241	$0	

OKANAGAN TSA -- VERNON FOREST DISTRICT
Table E: Current Fire and Pest Activities
Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01			
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority	
1 Planning/surveys/prescriptions	300	300	200	200	100	$6	$0	1	
2 Site preparation	10	0	0	0	0	5	1	1	*snag falling
3 Planting	10	20	20	20	20	7	1	1	*2000 summer plant
4 Brushing	0	0	0	0	0	0	0	0	
5 Max. density spacing	0	0	0	0	0	0	0	0	
6 Studies	0	0	0	0	0	0	0	0	
7 Other	0	0	0	0	0	0	0	0	
Totals	$320	$320	$220	$220	$120	$18	$0		

OKANAGAN TSA -- VERNON FOREST DISTRICT

Table F: Habitat Supply Activities

Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

*to be forwarded by MOE when available

OKANAGAN TSA -- VERNON FOREST DISTRICT
Table G: Incremental Reforestation
Prepared: August 27, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2 planting SP exempt areas	50	50	50	50	50	25	1	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	50	50	50	50	50	25	$0	

2 major licensee exempt areas

Rehabilitation of Poorly Performing Stands

1	0	0	0	0	0	$0	$0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0

Road, Landing, Hillslope and Riparian Reforestation

1	0	0	0	0	0	$0	$0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0

Incremental Reforestation - Management Unit Total

50	50	50	50	50	25	$0	2

OKANAGAN TSA -- VERNON FOREST DISTRICT

Summary Table

Prepared: August 27, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	4,090	4,050	4,025	4,000	3,000	130	0	
Table B: Stand Tending Activities	4,660	4,650	4,650	3,650	3,650	550	0	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	12,640	14,740	14,840	14,940	14,940	241	0	
Table E: Current Fire and Pest Activities	320	320	220	220	120	18	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	50	50	50	50	50	25	0	
Totals of all tables	21,760	23,810	23,785	22,860	21,760	964	1	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	6	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlo	Total	7	Studies	0	0	0	0	0	0	0	0	0

	g										
B	Stand Tending	4 Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending	6 Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1 Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2 Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3 Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4 Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5 Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6 Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7 Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8 Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4 Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5 Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6 Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7 Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1 Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2 Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3 Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4 Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5 Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6 Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7 Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8 Others	0	0	0	0	0	0	0	0	0
A	Backlog Backlog	1 Planning/surveys/presc.	4,000	4,000	4,000	4,000	3,000	80	0	1	0
A	Backlo Backlog	2 Site preparation	0	0	0	0	0	0	0	1	0

	g											
A	Backlog Backlog	4	Planting	40	25	0	0	0	25	1	1	0
A	Backlog Backlog	5	Brushing	0	0	0	0	0	0	0	1	0
A	Backlog Impeded	4	Brushing	50	25	25	0	0	25	1	1	0
D	FH Maintenance	1	Ground Surveys (ha)	10,000	12,000	12,000	12,000	12,000	175	0	1	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	40	40	40	40	40	32	1	1	0
D	FH Maintenance	5	Pheromone baiting (trees)	1,500	1,500	1,500	1,500	1,500	20	0	1	0
E	Current Fire/Pest	1	Planning/surveys/presc.	300	300	200	200	100	6	0	1	0
E	Current Fire/Pest	2	Site preparation	10	0	0	0	0	5	1	1	0
E	Current Fire/Pest	3	Planting	10	20	20	20	20	7	1	1	0
G	Incremental Reforestation			50	50	50	50	50	25	0	2	0
B	Stand Tending	1	Planning/surveys/presc.	4,000	4,000	4,000	3,000	3,000	80	0	2	0
B	Stand Tending	2	Spacing	400	400	400	400	400	240	1	2	0
B	Stand Tending	3	Pruning	250	250	250	250	250	200	1	2	0
B	Stand Tending	5	Studies	10	0	0	0	0	30	3	2	0
D	FH Maintenance	3	Fall & burn treatment (trees)	200	200	200	200	200	6	0	2	0
D	FH Maintenance	4	MSMA treatment	900	1,000	1,100	1,200	1,200	8	0	2	0

	(trees)									
Totals		21,760	23,810	23,785	22,860	21,760	$964			

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table A: Backlog Activities
August 18, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	100	100	100	0	0	$2	$0	1
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Seed purchase	0	0	0	0	0	0	0	0
6	Max. density spacing	0	0	0	0	0	0	0	0
7	Pruning	0	0	0	0	0	0	0	0
	Totals	100	100	100	0	0	2	$0	
Backlog Reforestation									
1	Planning/surveys/prescriptions	200	200	200	200	200	$4	$0	1
2	Site preparation	0	0	0	0	0	0	0	0
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4	Planting	30	30	30	0	0	15	1	1
5	Brushing	0	0	0	0	0	0	0	0
6	Seed purchase	30	30	30	0	0	10	0	1
	Totals	260	260	260	200	200	$29	$0	
Impeded areas									
1	Planning/surveys/prescriptions	200	200	200	200	200	$4	$0	1
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	100	100	100	100	100	80	1	1
5	Seed purchase	0	0	0	0	0	0	0	0
	Totals	300	300	300	300	300	$84	$0	

Backlog Activities - Management
Unit Total

1	Planning/surveys/prescriptions	500	500	500	400	400	$10	$0	
2	Site preparation	0	0	0	0	0	0	0	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	30	30	30	0	0	15	0	
5	Brushing	100	100	100	100	100	80	1	
6	Seed purchase	30	30	30	0	0	10	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	660	660	660	500	500	$115	$0	

* see attatched rationale sheet

OKANAGAN TSA -- PENTICTON FOREST DISTRICT

Table B: Stand Tending Activities

August 18, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	3000	3000	3000	3000	3000	$90	$0	1
2 Spacing	800	800	800	500	500	560	1	1
3 Pruning	50	50	50	50	50	50	1	2
4 Fertilizing	0	500	1000	1000	1000	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	3850	4350	4850	4550	4550	700	$0	

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table C: Forest Health Enhancement Activities
August 18, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	150	150	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others(surveys)	150	150	0	0	0	5	0	1
Totals	150	300	150	0	0	$5	$0	

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table D: Forest Health Maintenance Activities
August 18, 1999

Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	15	15	15	15	15	12	1	1
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	250	250	250	250	250	6	0	2
5 Pheromone baiting	trees	1000	1000	500	500	250	16	0	2
6 Defoliator spraying	ha	5000	2500	2500	1000	0	125	0	1
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		6265	3765	3265	1765	515	$158	$0	

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table E: Current Fire and Pest Activities
August 18, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	1000	1000	0	0	0	$14	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$1,000	$1,000	$0	$0	$0	$14	$0	

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table F: Habitat Supply Activities
September, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

OKANAGAN TSA -- PENTICTON FOREST DISTRICT
Table G: Incremental Reforestation
August 18, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	

2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	

Rehabilitation of Poorly Performing Stands

1 Surveys	500	500	500	500	500	$10	$0	1
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	500	500	500	500	500	$10	$0	

Road, Landing, Hillslope and Riparian Reforestation

1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	

Incremental Reforestation - Management Unit Total	500	500	500	500	500	10	$0	2

*surveys for opportunities to works in IDF stands plus opportunities in Afforestation of Non Commercial cover.

OKANAGAN TSA -- PENTICTON FOREST DISTRICT

Summary Table September, 1999

Table Totals	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	660	660	660	500	500	115	0	
Table B: Stand Tending Activities	3,850	4,350	4,850	4,550	4,550	700	0	
Table C: Forest Health Enhancement Activities	150	300	150	0	0	5	0	
Table D: Forest Health Maintenance Activities	6,265	3,765	3,265	1,765	515	158	0	
Table E: Current Fire and Pest Activities	1,000	1,000	0	0	0	14	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	500	500	500	500	500	10	0	
Totals of all tables	12,425	10,575	9,425	7,315	6,065	1,002	0	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand		4	Fertilizing	0	500	1,000	1,000	1,000	0	0	0	0

	Tending											
B	Stand Tending	5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	150	150	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0

F	Habitat Supply		8	Others	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	1	Planning/surveys/presc.	100	100	100	0	0	2	0	1	0
A	Backlog	Backlog	1	Planning/surveys/presc.	200	200	200	200	200	4	0	1	0
A	Backlog	Backlog	4	Planting	30	30	30	0	0	15	1	1	0
A	Backlog	Backlog	6	Seed Purchase	30	30	30	0	0	10	0	1	0
A	Backlog	Impeded	1	Planning/surveys/presc.	200	200	200	200	200	4	0	1	0
A	Backlog	Impeded	4	Brushing	100	100	100	100	100	80	1	1	0
B	Stand Tending		1	Planning/surveys/presc.	3,000	3,000	3,000	3,000	3,000	90	0	1	0
B	Stand Tending		2	Spacing	800	800	800	500	500	560	1	1	0
C	FH Enhancement		5	Others	150	150	0	0	0	5	0	1	0
D	FH Maintenance		2	Aerial Surveys (hours flying)	15	15	15	15	15	12	1	1	0
D	FH Maintenance		6	Defoliator spraying (ha)	5,000	2,500	2,500	1,000	0	125	0	1	0
E	Current Fire/Pest		1	Planning/surveys/presc.	1,000	1,000	0	0	0	14	0	1	0
B	Stand Tending		3	Pruning	50	50	50	50	50	50	1	2	0
D	FH Maintenance		4	MSMA treatment (trees)	250	250	250	250	250	6	0	2	0
D	FH Maintenance		5	Pheromone baiting (trees)	1,000	1,000	500	500	250	16	0	2	0
G	Incremental				500	500	500	500	500	10	0	2	0

Reforestation										
Totals		12,425	10,575	9,425	7,315	6,065	$1,002			

Merritt TSA Resource Management Plan for Sustainable Harvest

1.0 Basic Data (from Atherton & Associates' Incremental Silviculture Strategy)

Land Area

Description	Area (ha)	Area %
Total Area of TSA	1 115 900	100
Total Productive Crown Forest	812 500	73
Net Timber Harv. Land Base	528 400	47

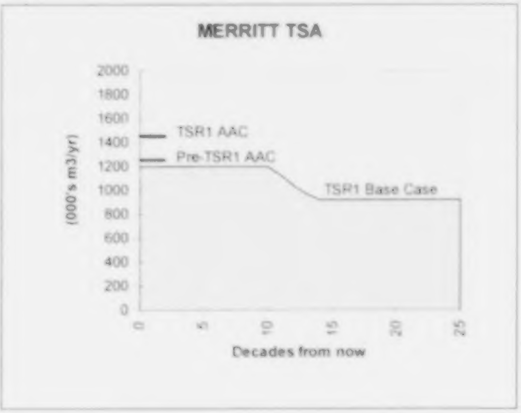
Source: TS analysis report - rounded to nearest 100 ha.

AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	1 254 750	1 204 250	-4.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	250 000	∞
Total	1 254 750	1 454 250	+15.9
Woodlot AAC	Excluded from TSR1 AAC	11 500	

*effective January 1/96

Harvest Forecast

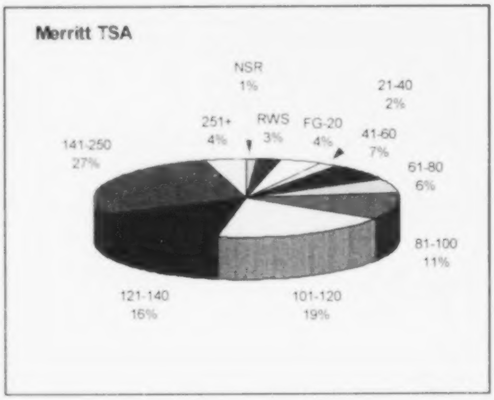


Site Class

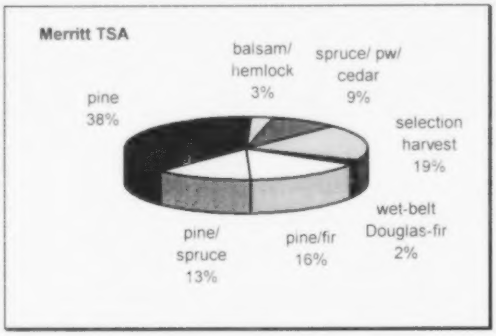
Merritt TSA

DATA NOT AVAILABLE

Age Class



Tree Species



2.0 Issues

2.1 The District has an abundance of mature timber and a relatively good operating area resulting in a very stable timber supply. The current harvest level can be maintained for at least 100 years, barring major catastrophic losses ie. Mountain pine beetle. Beyond this time there is a falldown response as existing forests with high volumes are replaced by regenerated stands with less volume/ha. Average harvested volume/ha. Is anticipated to decline from 340 m3 from existing stands to a long term average of 280 m3.

2.2 The Long Term Harvest Level (LTHL) may have an opportunity to be increased through:

- rehabilitation or re-classification of dry-belt D-fir (43000 ha.)(TSR 11). Weyerhaeuser has an ongoing FRBC project looking into this.
- increasing regenerated stand volumes (IFPA).
- reducing regen delay (IFPA).
- Reduced road and landing withdrawals or rehabilitation of old roads/landings (future logging system changes).

2.3 Also there is a substantial probability the LTHL will increase if it is proven the site indices for managed Pli are underestimated as confirmed by paired plot sampling.

2.4 Pine stands in the TSA are prone to overstocking. As a result juvenile spacing has been a common practice in the past with the goal of reducing overstocked juvenile stands (>5000 sph) to more productive levels. There is some concern over the long term impacts of this practice on derived wood products and discussions over which density minimizes these concerns. Studies of yield, branch size, early/late wood%, wood density, tree taper, etc. are in progress. In the absence of a detailed silviculture strategy for the Merritt TSA to address these concerns, this plan is based on the concept of spacing regenerated stands that are excessively stocked ie. > 10,000 sph and not spacing those stands that are below 5000 sph.

3.0 Silviculture History- Backlog and Incremental (5 year average)

	Ha.
Site Preparation	284
Planting	1106
Brushing	235
Spacing	1140
Pruning	373
Fertilize	99
Surveys	12475

4.0 Opportunities to Increase Timber Supply (mostly from Atherton & Associates' Incremental Silviculture Strategy)

The nature of the Merritt TSA makes it a potential candidate for increased harvest levels that are sustainable for a relatively long period. Part of a silviculture strategy to increase short term harvest levels could be to fertilize suitable stands 10 to 15 years prior to harvest to boost existing stand volumes. Currently Bark Beetles are dictating where we harvest so scheduling harvests 10 years into the future would be difficult and risky. Fertilization to date has been limited to second growth spaced and pruned stands. Recent observations, after fertilization, have shown large branch size increases immediately above the lifted crown giving the trees an unbalanced appearance. Further research and analysis of existing data needs to be carried out in this area prior to implementation of a large fertilization program.

A potential strategy to accomplish an increase in harvest levels could be to increase the allowable cut in the short term by borrowing timber from the long term, thus reducing the timber lost to natural and catastrophic events including fire, pests and decay in the large stock of existing mature timber. Strategies to increase long term harvests include increasing regenerated stand volumes and increasing the timber harvesting land base through rehabilitation of non-merchantable stands.

Potential Strategies by Response Time Frame

Response Time Frame	Strategy/Action	Anticipated Result
Short Term	Assess site productivity to confirm or refute contention of underestimation of managed Pli stand yields. Re-evaluate dry-belt Fdi if supported by studies currently underway. Fertilize suitable existing stands scheduled for harvest in 2nd decade to increase volumes. If current bark beetle problem under control only. Continue juvenile spacing excessively dense stands to ensure conversion of possible smallwood areas to conventional AAC. Commercial thinning stands at age 55 or beyond to increase yields and supply small wood products to market.	Maintain post TSR partitioned AAC for marginal stands into 2nd decade. Monitor smallwood licenses for 15 years. Increase post TSR conventional AAC 10%.
Mid Term	Continue programs 3 & 4 & 5 above if supported by studies and analysis currently underway. Rehabilitate or re-classify all or significant portion of the 43 000 ha of dry-belt Douglas-fir currently classified as non-merchantable. Increase regenerated stand yields 20% by: reducing time to regeneration to 0 or 1 year; using A class seed or better; using large planting stock; implementing a void management program to reduce TIPSY OAF1 by 5%; Increase planting densities. 4. Complete the regeneration of backlog sites.	As above.
Long Term	As above, except fertilization of existing stands is phased out because existing stands are now largely replaced with regenerated stands.	Convert marginal stand AAC into conventional AAC over approx. 150 years. Maintain conventional AAC at 1 325 000 m3/yr, a 43% increase above base case forecast of 925 000 m3/yr. Sources: 0 yrs Regen delay 5% Dfi rehabilitation 5% regen stands incr 20% small wood stnds 20% Total 50%

5.0 Opportunities to Improve Timber Quality

Pruning has been practised recently in the district. Pruning early, prior to achieving a 3m lift, is/was a common practice. This practice ensured a smaller knotty core and maintained more live crown. While pruning is declining in the district, mainly because of the higher densities being prescribed in Pli spacing regimes, there is a fair amount of second entries remaining on those stands where a 3 m lift was not attained. These become a high priority to complete so pruning activities will continue to increase over the next few years and then decline.

6.0 Habitat Supply

No specific issues identified.

7.0 Working Targets

Forest level (Type1) silviculture analyses are being conducted in 1999/2000. Working targets should be available for the 2001/02 RMP.

8.0 Silviculture Program

See attached tables A - G.

9.0 Job Outcomes

Job outcomes are provided in the Regional RMP roll-up.

10.0 Appendices

Merritt TSA Summary Tables

- All Priorities
- FRBC Eligible Priority Activities
- MOF Responsibility Priority Activities

Merritt Forest District Tables A – G & Summary Table

MERRITT TSA
Table A: Backlog Activities
Prepared: September 8, 1999

Legal Obligations	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	1500	692	1132	266	250	$23	$0	1
2 Site preparation	200	0	0	0	0	100	1	1
3 Planting	632	0	70	0	0	298	0	1
4 Brushing	0	0	0	100	100	0	0	0
5 Seed purchase	0	70	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	2332	762	1202	366	350	421	$0	

Backlog Reforestation

1 Planning/surveys/prescriptions	520	100	100	100	50	$8	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	51	50	0	0	0	10	0	1
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	50	0	0	0	0	13	0	1
Totals	621	150	100	100	50	$31	$0	

Impeded areas

1 Planning/surveys/prescriptions	4160	1968	3220	910	892	$62	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	100	100	100	50	50	45	0	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	4260	2068	3320	960	942	$107	$0	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	6180	2760	4452	1276	1192	$93	$0	
2	Site preparation	200	0	0	0	0	100	0	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	683	50	70	0	0	308	0	
5	Brushing	100	100	100	150	150	45	0	
6	Seed purchase	50	70	0	0	0	13	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	7213	2980	4622	1426	1342	$558	$0	

MERRITT TSA
Table B: Stand Tending Activities
Prepared: September 8, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	3500	3500	3500	3500	3500	$105	$0	2
2 Spacing	950	950	950	950	950	475	1	2*
3 Pruning	196	174	177	456	100	98	1	1
4 Fertilizing	0	100	200	300	500	0	0	0
5 Studies	2	2	2	2	2	44	22	2
6 Other	0	0	0	0	0	0	0	0
Totals	4648	4726	4829	5208	5052	722	$0	

*Approximately 800 ha. is priority 3. Maintaining partnerships while marginally improving the stands.

In the absence of a detailed silviculture strategy the status quo was chosen.

MERRITT TSA
Table C: Forest Health Enhancement Activities
Prepared: September 8, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

No specific input received from proponents or forest health officer.
Enhancement accomplished through regular standtending activities.

MERRITT TSA
Table D: Forest Health Maintenance Activities
Prepared: September 8, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	2000	2000	2000	2000	2000	$35	$0	1
2 Aerial Surveys	hours of flying time	60	60	60	60	60	50	1	1
3 Fall and burn treatment	trees	1000	1000	1000	1000	1000	35	0	1
4 MSMA treatment	trees	20000	20000	20000	20000	20000	120	0	1
5 Pheromone baiting	trees	500	500	500	500	500	45	0	1
6 Defoliator spraying	traps	0	0	0	0	0	3	3,000	1
7 Studies IBM Mortality	number	1	1	1	1	1	6	6	1
8 Other - Planning*	number	3	3	3	3	3	85	28	1
Totals		23564	23564	23564	23564	23564	$379	$0	

* -Forest Health inventory digitizing and tracking

-Data maintenance and AOV plotting

-Strategic plan development for IBM

MERRITT TSA
Table E: Current Fire and Pest Activities
Prepared: September 8, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	1260	1045	1172	1030	1280	$19	$0	1
2 Site preparation	100	200	200	200	200	30	0	1
3 Planting	45	172	230	220	200	32	1	1
4 Brushing	0	0	0	100	80	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Seedlings	217	230	220	200	0	80	0	1
Totals	$1,622	$1,647	$1,822	$1,750	$1,760	$161	$0	

260 ha. of survival surveys on 1999
planting

MERRITT TSA
Table F: Habitat Supply Activities
Prepared: September 8, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

No specific issues identified.

MERRITT TSA
Table G: Incremental Reforestation
Prepared: September 8, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	

Rehabilitation of Poorly Performing Stands

1	0	0	0	0	0	$0	$0
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0

Road, Landing, Hillslope and Riparian Reforestation

1	16	16	16	16	16	$30	$2
2	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0
Totals	16	16	16	16	16	$30	$2

Incremental Reforestation - Management Unit Total

	16	16	16	16	16	30	$2	2

MERRITT TSA

Summary Table

Prepared: September 8, 1999

Table Totals	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	7,213	2,980	4,622	1,426	1,342	558	0	
Table B: Stand Tending Activities	4,648	4,726	4,829	5,208	5,052	722	0	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	23,564	23,564	23,564	23,564	23,564	379	0	
Table E: Current Fire and Pest Activities	1,622	1,647	1,822	1,750	1,760	161	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	16	16	16	16	16	30	2	
Totals of all tables	37,063	32,933	34,853	31,964	31,734	1,850	2	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	4	Brushing	0	0	0	100	100	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	70	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		4	Fertilizing	0	100	200	300	500	0	0	0	0
B	Stand Tendin		6	Other	0	0	0	0	0	0	0	0	0

g										
C FH Enhancement	1 Site rehab	0	0	0	0	0	0	0	0	0
C FH Enhancement	2 Spacing	0	0	0	0	0	0	0	0	0
C FH Enhancement	3 Pruning	0	0	0	0	0	0	0	0	0
C FH Enhancement	4 Studies	0	0	0	0	0	0	0	0	0
C FH Enhancement	5 Others	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	4 Brushing	0	0	0	100	80	0	0	0	0
E Current Fire/Pest	5 Max. density spacing	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	6 Studies	0	0	0	0	0	0	0	0	0
F Habitat Supply	1 Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F Habitat Supply	2 Site preparation	0	0	0	0	0	0	0	0	0
F Habitat Supply	3 Planting	0	0	0	0	0	0	0	0	0
F Habitat Supply	4 Brushing	0	0	0	0	0	0	0	0	0
F Habitat Supply	5 Spacing	0	0	0	0	0	0	0	0	0
F Habitat Supply	6 Pruning	0	0	0	0	0	0	0	0	0
F Habitat Supply	7 Studies	0	0	0	0	0	0	0	0	0
F Habitat Supply	8 Others	0	0	0	0	0	0	0	0	0
A Backlog Legal	1 Planning/surveys/presc.	1,500	692	1,132	266	250	23	0	1	0
A Backlog Legal	2 Site preparation	200	0	0	0	0	100	1	1	0
A Backlog Legal	3 Planting	632	0	70	0	0	298	0	1	0
A Backlog Backlog	1 Planning/surveys/presc.	520	100	100	100	50	8	0	1	0
A Backlog Backlog	4 Planting	51	50	0	0	0	10	0	1	0
A Backlog Backlog	6 Seed Purchase	50	0	0	0	0	13	0	1	0
A Backlog Impeded	1 Planning/surveys/presc.	4,160	1,968	3,220	910	892	62	0	1	0
A Backlo Impeded	4 Brushing	100	100	100	50	50	45	0	1	0

	g											
B	Stand Tending	3	Pruning	196	174	177	456	100	98	1	1	0
D	FH Maintenance	1	Ground Surveys (ha)	2,000	2,000	2,000	2,000	2,000	35	0	1	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	60	60	60	60	60	50	1	1	0
D	FH Maintenance	3	Fall & burn treatment (trees)	1,000	1,000	1,000	1,000	1,000	35	0	1	0
D	FH Maintenance	4	MSMA treatment (trees)	20,000	20,000	20,000	20,000	20,000	120	0	1	0
D	FH Maintenance	5	Pheromone baiting (trees)	500	500	500	500	500	45	0	1	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	3	3,000	1	0
D	FH Maintenance	7	Studies (number)	1	1	1	1	1	6	6	1	0
D	FH Maintenance	8	Other	3	3	3	3	3	85	28	1	0
E	Current Fire/Pest	1	Planning/surveys/presc.	1,260	1,045	1,172	1,030	1,280	19	0	1	0
E	Current Fire/Pest	2	Site preparation	100	200	200	200	200	30	0	1	0
E	Current Fire/Pest	3	Planting	45	172	230	220	200	32	1	1	0
E	Current Fire/Pest	7	Other	217	230	220	200	0	80	0	1	0
B	Stand Tending	1	Planning/surveys/presc.	3,500	3,500	3,500	3,500	3,500	105	0	2	0
B	Stand Tending	5	Studies	2	2	2	2	2	44	22	2	0
G	Incremental Reforestation			16	16	16	16	16	30	2	2	0
B	Stand Tendin	2	Spacing	950	950	950	950	950	475	1	2*	0

g										
Totals		37,063	32,933	34,853	31,964	31,734	$1,850			

SH Priorities -- Merritt TSA Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
						2000/	2001/	2002/	2003/	2004/		Funding	Unit Cost	Man. Unit	Regional
Management Unit	**Table and category**				**Activity**	2001	2002	2003	2004	2005		($000)	($)	Priority	Priority
Merritt TSA	A	Backlog	Legal	1	Planning/surveys/presc.	1500	692	1132	266	250		22.5	0.015	1	0
Merritt TSA	A	Backlog	Legal	2	Site preparation	200	0	0	0	0		100	0.5	1	0
Merritt TSA	A	Backlog	Legal	3	Planting	632	0	70	0	0		298	0.4715	1	0
Merritt TSA	A	Backlog	Backlog	1	Planning/surveys/presc.	520	100	100	100	50		8	0.0154	1	0
Merritt TSA	A	Backlog	Backlog	4	Planting	51	50	0	0	0		10	0.1961	1	0
Merritt TSA	A	Backlog	Backlog	6	Seed Purchase	50	0	0	0	0		12.5	0.25	1	0
Merritt TSA	A	Backlog	Impeded	1	Planning/surveys/presc.	4160	1968	3220	910	892		62.4	0.015	1	0
Merritt TSA	A	Backlog	Impeded	4	Brushing	100	100	100	50	50		45	0.45	1	0
Merritt TSA	B	Stand Tending		3	Pruning	196	174	177	456	100		98	0.5	1	0
Merritt TSA	D	FH Maintenance		1	Ground Surveys (ha)	2000	2000	2000	2000	2000		35	0.0175	1	0
Merritt TSA	D	FH Maintenance		2	Aerial Surveys (hours flying)	60	60	60	60	60		50	0.8333	1	0
Merritt TSA	D	FH Maintenance		3	Fall & burn treatment (trees)	1000	1000	1000	1000	1000		35	0.035	1	0

Merritt TSA	D	FH Maintenance	4	MSMA treatment (trees)	20000	20000	20000	20000	20000		120	0.006	1	0
Merritt TSA	D	FH Maintenance	5	Pheromone baiting (trees)	500	500	500	500	500		45	0.09	1	0
Merritt TSA	D	FH Maintenance	6	Defoliator spraying (ha)	0.001	0	0	0	0		3	3000	1	0
Merritt TSA	D	FH Maintenance	7	Studies (number)	1	1	1	1	1		6	6	1	0
Merritt TSA	D	FH Maintenance	8	Other	3	3	3	3	3		85	28.333	1	0
Merritt TSA	E	Current Fire/Pest	1	Planning/surveys/presc.	1260	1045	1172	1030	1280		18.9	0.015	1	0
Merritt TSA	E	Current Fire/Pest	2	Site preparation	100	200	200	200	200		30	0.3	1	0
Merritt TSA	E	Current Fire/Pest	3	Planting	45	172	230	220	200		32.4	0.72	1	0
Merritt TSA	E	Current Fire/Pest	7	Other	217	230	220	200	0		79.638	0.367	1	0
Priority 1 subtotal											**1196**			
Merritt TSA	B	Stand Tending	1	Planning/surveys/presc.	3500	3500	3500	3500	3500		105	0.03	2	0
Merritt TSA	B	Stand Tending	5	Studies	2	2	2	2	2		43.75	21.875	2	0
Merritt TSA	G	Incremental Reforestation			16.014	16	16	16	16		30	1.8734	2	0
Merritt TSA	B	Stand Tending	2	Spacing	950	950	950	950	950		475	0.5	2*	0
Priority 2 subtotal											**653.8**			

SH Priorities -- Merritt TSA Summary

FRBC Eligible Activities														
						Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Merritt TSA	A	Backlog	Legal	1	Planning/surveys/presc.	1500	692	1132	266	250	22.5	0.015	1	0
Merritt TSA	A	Backlog	Legal	2	Site preparation	200	0	0	0	0	100	0.5	1	0
Merritt TSA	A	Backlog	Legal	3	Planting	632	0	70	0	0	298	0.4715	1	0
Merritt TSA	A	Backlog	Backlog	1	Planning/surveys/presc.	520	100	100	100	50	8	0.0154	1	0
Merritt TSA	A	Backlog	Backlog	4	Planting	51	50	0	0	0	10	0.1961	1	0
Merritt TSA	A	Backlog	Backlog	6	Seed Purchase	50	0	0	0	0	12.5	0.25	1	0
Merritt TSA	A	Backlog	Impeded	1	Planning/surveys/presc.	4160	1968	3220	910	892	62.4	0.015	1	0
Merritt TSA	A	Backlog	Impeded	4	Brushing	100	100	100	50	50	45	0.45	1	0
Merritt TSA	B	Stand Tending		3	Pruning	196	174	177	456	100	98	0.5	1	0
Priority 1 subtotal											**656.4**			

Merritt TSA	B	Stand Tending		1	Planning/surveys/presc.		3500	3500	3500	3500	3500		105	0.03	2	0
Merritt TSA	B	Stand Tending		5	Studies		2	2	2	2	2		43.75	21.875	2	0
Merritt TSA	G	Incremental Reforestation					16.014	16	16	16	16		30	1.8734	2	0
Merritt TSA	B	Stand Tending		2	Spacing		950	950	950	950	950		475	0.5	2*	0
Priority 2 subtotal													**653.8**			
* mixture of priority 2 and 3																

SH Priorities -- Merritt TSA Summary

MOF Responsibility					Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Management Unit	Table and category			Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Merritt TSA	D	FH Maintenance	1	Ground Surveys (ha)	2000	2000	2000	2000	2000	35	0.0175	1	0
Merritt TSA	D	FH Maintenance	2	Aerial Surveys (hours flying)	60	60	60	60	60	50	0.8333	1	0
Merritt TSA	D	FH Maintenance	3	Fall & burn treatment (trees)	1000	1000	1000	1000	1000	35	0.035	1	0
Merritt TSA	D	FH Maintenance	4	MSMA treatment (trees)	20000	20000	20000	20000	20000	120	0.006	1	0
Merritt TSA	D	FH Maintenance	5	Pheromone baiting (trees)	500	500	500	500	500	45	0.09	1	0
Merritt TSA	D	FH Maintenance	6	Defoliator spraying (ha)	0.001	0	0	0	0	3	3000	1	0
Merritt TSA	D	FH Maintenance	7	Studies (number)	1	1	1	1	1	6	6	1	0
Merritt TSA	D	FH Maintenance	8	Other	3	3	3	3	3	85	28.333	1	0
Merritt TSA	E	Current Fire/Pest	1	Planning/surveys/presc.	1260	1045	1172	1030	1280	19	0.015	1	0

Merritt TSA	E	Current Fire/Pest	2	Site preparation	100	200	200	200	200		30	0.3	1	0
Merritt TSA	E	Current Fire/Pest	3	Planting	45	172	230	220	200		32	0.72	1	0
Merritt TSA	E	Current Fire/Pest	7	Other	217	230	220	200	0		80	0.367	1	0
Priority 1 total											**540**			

Lillooet TSA Resource Management Plan

1.0 Basic Data (from Atherton and Associates Incremental Silviculture Strategy)

After publication of the Analysis Report, the BCFS corrected errors, decreasing the THLB approximately 5%. Information below is noted as corrected or uncorrected, as available.

Between the time the analysis addendum was produced and the AAC determination, the Stein Valley park was created. While the AAC determination takes the park into consideration, the timber supply analysis and addendum do not.

Land Area

Description	Area (ha)	Area %
Total Area of TSA	1 123 800	100
Total Productive Crown Forest	529 200	47
Net Timber Harv. Land Base	278 200	25

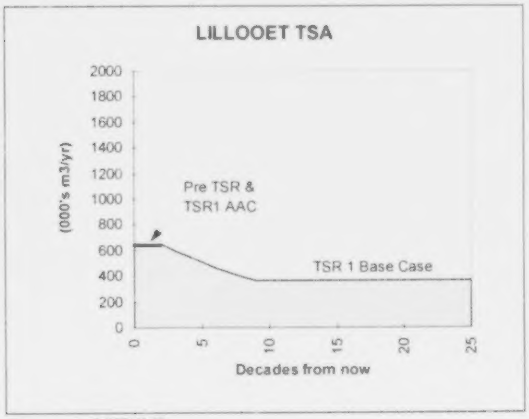
Corrected THLB - rounded to nearest 100 ha.

AAC

AAC Type	Pre-TSR (m^3)	TSR1* (m^3)	Change (%)
Conventional	643 500	643 500	0.0
Deciduous	-	-	-
Insect/Disease	-	-	-
Marginal	-	-	-
Total	643 500	643 500	0.0
Woodlot AAC	Excluded from the TSA AAC	6 500	

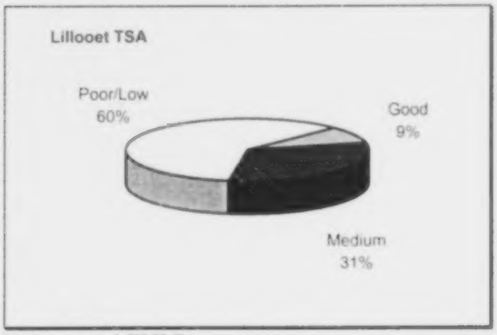
*effective August 1/96

Harvest Forecast



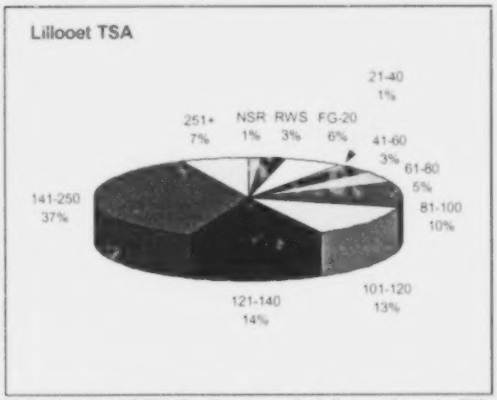
Corrected THLB.

Site Class



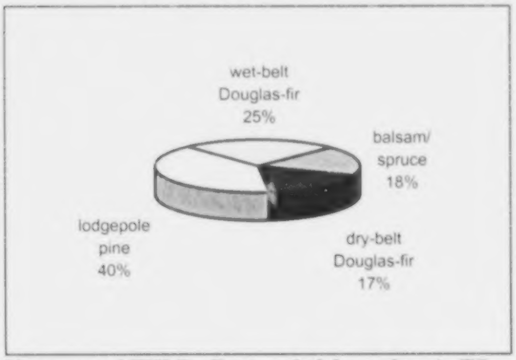
Uncorrected THLB.

Age Class



Uncorrected THLB. Data scaled from chart in TS analysis report.

Tree Species



Uncorrected THLB. Data scaled from chart in TS analysis report

2.0 Issues (from Atherton and Associates Incremental Silviculture Strategy)

The District has a preponderance of mature timber which provides stability in the short term. This stability is further enhanced by the finding that inventory volumes may be under estimated by 18%.

The current harvest level can be maintained for at least 30 years. Beyond this time there is a falldown response as existing forest volumes are replaced by regenerated stands with less volume/ha.

Average harvested volume/ha on clearcut areas declines from approximately 325m^3 from existing stands to a long term average of 200-250m^3 from planted stands.

An LRMP process is taking place in the District. The resulting constraints and land use decisions could affect future harvest levels.

3.0 Silviculture History - Backlog and Incremental (5 year average)

	Ha.
Site Preparation	287
Planting	661
Brushing	391
Spacing	492
Pruning	56
Fertilization	0
Surveys	2500

4.0 Opportunities to Increase Timber Supply (from Atherton and Associates Incremental Silviculture Strategy)

Site factors such as rough terrain, dry climate and a relatively high proportion of poor site land limit the opportunities for incremental silviculture to increase timber supply.

There may be some opportunity to increase timber supply by utilizing non-merchantable, low sites or deciduous stands.

Potential Strategies by Response Time Frame

Response Time Frame	Strategy/Action	Anticipated Result
Short Term	None	Maintain post TSR AAC into 2nd decade.
Mid Term	Increase regenerated stand yields 10% by: reducing time to regeneration to 0 or 1 year; using A class seed or better; using large planting stock; implementing a void management program to reduce TIPSY OAF1 by 5%.	Increase harvest levels 3% to 412 000 m3/yr.
Long Term	As above.	Increase LTHL from 400 000 to 442 000 m3/yr.

Potential Treatments and Analysis Results

Treatment	Comment/ Potential Treatment Regimes	Treatable Area
Conifer Release/ Brushing	No opportunities noted in TS analysis.	
Spacing	May be used to improve upon 15% OAF1 TIPSY reductions.	
Fertilization		40% of forests in the THLB has Pl as the leading species and 25% has wet-belt Douglas-fir. Younger stands may be candidates for fertilization.
Commercial Thinning	None taking place at time of TS analysis. Not required to overcome forest cover constraints.	Chief forester notes the age class structure and adverse terrain limits opportunities for CT (rationale, 19).
Backlog NSR	All assumed restocked by the year 2001. No additional opportunity.	
Conversion	No information available.	

5.0 Opportunities to Improve Timber Quality

Pruning has been practiced recently in the Lillooet District TSA on those sites where it is viable (biologically/economically).

The small proportion of good/medium sites in our District limit the opportunities to improve timber quality through pruning. Pruning early, prior to achieving a 3m lift is/was a common practice. This practice ensured a smaller knotty core and maintained more live crown.

While pruning is declining in the district there are opportunities to do second entries on those stands where a 3m lift was not attained and to protect against white pine blister rust.

6.0 Habitat Supply

No TSA-specific issues were identified. Table F summarizes habitat supply activities for the whole Kamloops Forest Region. The only activity proposed in addition to Table F is completion of stand density habitat studies being conducted on TFL 49.

7.0 Working Targets

Forest level (Type 1) silviculture analyses are being conducted in 1999/2000. Working targets should be available for the 2001/2002 RMP.

8.0 Silviculture Program

See attached tables A - G.

9.0 Job Outcomes

Job outcomes are provided in the Regional RMP Rollup.

10.0 Appendices

Lillooet TSA Summary Tables
- All Priorities
- FRBC Eligible Priority Activities
- MOF Responsibility Priority Activities

Lillooet Forest District Tables A – G & Summary Table

LILLOOET DISTRICT TSA
Table A: Backlog Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	2487	1791	1100	844	761	$53	$0	1
2 Site preparation	242	260	250	80	50	34	0	3
3 Planting	80	62	30	22	0	44	1	1
4 Brushing	38	22	22	15	0	27	1	2
5 Seed purchase	22	22	15	0	0	4	0	1
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	2869	2157	1417	961	811	162	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	402	243	0	0	0	$15	$0	1
2 Site preparation	51	0	0	0	0	41	1	3
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	294	346	0	0	0	162	1	1
5 Brushing	26	0	0	0	0	18	1	2
6 Seed purchase	346	0	0	0	0	62	0	1
Totals	1119	589	0	0	0	$298	$0	
Impeded areas								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management
Unit Total

1	Planning/surveys/prescriptions	2889	2034	1100	844	761	$68	$0	
2	Site preparation	293	260	250	80	50	75	0	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	374	408	30	22	0	206	1	
5	Brushing	64	22	22	15	0	45	1	
6	Seed purchase	368	22	15	0	0	66	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	3988	2746	1417	961	811	$460	$0	

LILLOOET DISTRICT TSA
Table B: Stand Tending Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	392	300	300	300	300	$21	$0	3
2 Spacing	114	80	65	65	65	80	1	3
3 Pruning	22	14	28	25	25	20	1	3
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	528	394	393	390	390	121	$0	

LILLOOET DISTRICT TSA
Table C: Forest Health Enhancement Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	25	25	25	25	25	2	0	3
3 Pruning	29	30	15	15	15	31	1	3
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	54	55	40	40	40	$33	$1	

LILLOOET DISTRICT TSA
Table D: Forest Health Maintenance Activities
Prepared: August 26, 1999

Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	2000	2000	2000	2000	2000	$23	$0	2
2 Aerial Surveys	hours of flying time	90	90	90	90	90	67	1	2
3 Fall and burn treatment	trees	250	250	250	250	250	12	0	2
4 MSMA treatment	trees	1000	1000	1000	1000	1000	11	0	2
5 Pheromone baiting	trees	1000	1000	1000	1000	1000	10	0	2
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		4340	4340	4340	4340	4340	$123	$0	

LILLOOET DISTRICT TSA
Table E: Current Fire and Pest Activities
Prepared: August 26, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	280		0	0	0	$7	$0	3
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	40	30	0	0	0	22	1	3
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$320	$30	$0	$0	$0	$29	$0	

LILLOOET DISTRICT TSA
Table F: Habitat Supply Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

LILLOOET DISTRICT TSA
Table G: Incremental Reforestation
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	125	225	300	300	300	$3	$0	4
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	125	225	300	300	300	3	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	125	225	300	300	300	3	$0	4

LILLOOET DISTRICT TSA
Table F: Habitat Supply Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

LILLOOET DISTRICT TSA
Summary Table
Prepared: August 26, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	3,988	2,746	1,417	961	811	460	0	
Table B: Stand Tending Activities	528	394	393	390	390	121	0	
Table C: Forest Health Enhancement Activities	54	55	40	40	40	33	1	
Table D: Forest Health Maintenance Activities	4,340	4,340	4,340	4,340	4,340	123	0	
Table E: Current Fire and Pest Activities	320	30	0	0	0	29	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	125	225	300	300	300	3	0	
Totals of all tables	9,355	7,790	6,490	6,031	5,881	769	1	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		4	Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending		5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		6	Other	0	0	0	0	0	0	0	0	0

C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
A	Backlog Legal	1	Planning/surveys/presc.	2,487	1,791	1,100	844	761	53	0	1	0
A	Backlog Legal	3	Planting	80	62	30	22	0	44	1	1	0
A	Backlog Legal	5	Seed Purchase	22	22	15	0	0	4	0	1	0
A	Backlog Backlog	1	Planning/surveys/presc.	402	243	0	0	0	15	0	1	0
A	Backlog Backlog	4	Planting	294	346	0	0	0	162	1	1	0
A	Backlog Backlog	6	Seed Purchase	346	0	0	0	0	62	0	1	0

	g											
A	Backlog Legal	4	Brushing	38	22	22	15	0	27	1	2	0
A	Backlog Backlog	5	Brushing	26	0	0	0	0	18	1	2	0
D	FH Maintenance	1	Ground Surveys (ha)	2,000	2,000	2,000	2,000	2,000	23	0	2	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	90	90	90	90	90	67	1	2	0
D	FH Maintenance	3	Fall & burn treatment (trees)	250	250	250	250	250	12	0	2	0
D	FH Maintenance	4	MSMA treatment (trees)	1,000	1,000	1,000	1,000	1,000	11	0	2	0
D	FH Maintenance	5	Pheromone baiting (trees)	1,000	1,000	1,000	1,000	1,000	10	0	2	0
A	Backlog Legal	2	Site preparation	242	260	250	80	50	34	0	3	0
A	Backlog Backlog	2	Site preparation	51	0	0	0	0	41	1	3	0
B	Stand Tending	1	Planning/surveys/presc.	392	300	300	300	300	21	0	3	0
B	Stand Tending	2	Spacing	114	80	65	65	65	80	1	3	0
B	Stand Tending	3	Pruning	22	14	28	25	25	20	1	3	0
C	FH Enhancement	2	Spacing	25	25	25	25	25	2	0	3	0
C	FH Enhancement	3	Pruning	29	30	15	15	15	31	1	3	0
E	Current Fire/Pest	1	Planning/surveys/presc.	280	0	0	0	0	7	0	3	0
E	Current Fire/Pest	3	Planting	40	30	0	0	0	22	1	3	0
G	Incremental			125	225	300	300	300	3	0	4	0

Reforestation										
Totals		9,355	7,790	6,490	6,031	5,881	$769			

SH Priorities -- Lillooet TSA Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Lillooet District TSA	A	Backlog	Legal	1	Planning/surveys/presc.	2487	1791	1100	844	761		53	0.0213	1	0
Lillooet District TSA	A	Backlog	Legal	3	Planting	80	62	30	22	0		44	0.55	1	0
Lillooet District TSA	A	Backlog	Legal	5	Seed Purchase	22	22	15	0	0		4	0.1818	1	0
Lillooet District TSA	A	Backlog	Backlog	1	Planning/surveys/presc.	402	243	0	0	0		15	0.0373	1	0
Lillooet District TSA	A	Backlog	Backlog	4	Planting	294	346	0	0	0		162	0.551	1	0
Lillooet District TSA	A	Backlog	Backlog	6	Seed Purchase	346	0	0	0	0		62	0.1792	1	0
Priority 1 subtotal												**340**			
Lillooet District TSA	A	Backlog	Legal	4	Brushing	38	22	22	15	0		27	0.7105	2	0
Lillooet District TSA	A	Backlog	Backlog	5	Brushing	26	0	0	0	0		18	0.6923	2	0
Lillooet District TSA	D	FH Maintenance		1	Ground Surveys (ha)	2000	2000	2000	2000	2000		23	0.0115	2	0
Lillooet District TSA	D	FH Maintenance		2	Aerial Surveys (hours flying)	90	90	90	90	90		67	0.7444	2	0

Lillooet District TSA	D	FH Maintenance		3	Fall & burn treatment (trees)	250	250	250	250	250		12	0.048	2	0
Lillooet District TSA	D	FH Maintenance		4	MSMA treatment (trees)	1000	1000	1000	1000	1000		11	0.011	2	0
Lillooet District TSA	D	FH Maintenance		5	Pheromone baiting (trees)	1000	1000	1000	1000	1000		10	0.01	2	0
Priority 2 subtotal												**168**			
Lillooet District TSA	A	Backlog	Legal	2	Site preparation	242	260	250	80	50		34	0.1405	3	0
Lillooet District TSA	A	Backlog	Backlog	2	Site preparation	51	0	0	0	0		41	0.8039	3	0
Lillooet District TSA	B	Stand Tending		1	Planning/surveys/presc.	392	300	300	300	300		21	0.0536	3	0
Lillooet District TSA	B	Stand Tending		2	Spacing	114	80	65	65	65		80	0.7018	3	0
Lillooet District TSA	B	Stand Tending		3	Pruning	22	14	28	25	25		20	0.9091	3	0
Lillooet District TSA	C	FH Enhancement		2	Spacing	25	25	25	25	25		2	0.08	3	0
Lillooet District TSA	C	FH Enhancement		3	Pruning	29	30	15	15	15		31	1.069	3	0
Lillooet District TSA	E	Current Fire/Pest		1	Planning/surveys/presc.	280	0	0	0	0		7	0.025	3	0
Lillooet District TSA	E	Current Fire/Pest		3	Planting	40	30	0	0	0		22	0.55	3	0
Priority 3 subtotal															

Lillooet District TSA	G	Incremental Reforestation					125.01	225	300	300	300		**3**	0.024	4	0
Total													**769**			

SH Priorities -- Lillooet TSA Summary

FRBC Eligible Activities															
						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Lillooet District TSA	A	Backlog	Legal	1	Planning/surveys/ presc.	2487	1791	1100	844	761		53	0.0213	1	0
Lillooet District TSA	A	Backlog	Legal	3	Planting	80	62	30	22	0		44	0.55	1	0
Lillooet District TSA	A	Backlog	Legal	5	Seed Purchase	22	22	15	0	0		4	0.1818	1	0
Lillooet District TSA	A	Backlog	Backlog	1	Planning/surveys/ presc.	402	243	0	0	0		15	0.0373	1	0
Lillooet District TSA	A	Backlog	Backlog	4	Planting	294	346	0	0	0		162	0.551	1	0
Lillooet District TSA	A	Backlog	Backlog	6	Seed Purchase	346	0	0	0	0		62	0.1792	1	0
Priority 1 subtotal												**340**			

Lillooet District TSA	A	Backlog	Legal	4	Brushing		38	22	22	15	0		27	0.7105	2	0
Lillooet District TSA	A	Backlog	Backlog	5	Brushing		26	0	0	0	0		18	0.6923	2	0
Priority 2 subtotal													**45**			
Lillooet District TSA	A	Backlog	Legal	2	Site preparation		242	260	250	80	50		34	0.1405	3	0
Lillooet District TSA	A	Backlog	Backlog	2	Site preparation		51	0	0	0	0		41	0.8039	3	0
Lillooet District TSA	B	Stand Tending		1	Planning/surveys/ presc.		392	300	300	300	300		21	0.0536	3	0
Lillooet District TSA	B	Stand Tending		2	Spacing		114	80	65	65	65		80	0.7018	3	0
Lillooet District TSA	B	Stand Tending		3	Pruning		22	14	28	25	25		20	0.9091	3	0
Lillooet District TSA	C	FH Enhancement		2	Spacing		25	25	25	25	25		2	0.08	3	0
Lillooet District TSA	C	FH Enhancement		3	Pruning		29	30	15	15	15		31	1.069	3	0
Priority 3 subtotal													**229**			
Lillooet District TSA	G	Incremental Reforestation					125.01	225	300	300	300		3	0.024	4	0
Priority 4 subtotal													**3**			
Total													**769**			

SH Priorities -- Lillooet TSA Summary

MOF Responsibility					Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Management Unit	Table and category			Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Lillooet District TSA	D	FH Maintenance	1	Ground Surveys (ha)	2000	2000	2000	2000	2000	23	0.0115	2	0
Lillooet District TSA	D	FH Maintenance	2	Aerial Surveys (hours flying)	90	90	90	90	90	67	0.7444	2	0
Lillooet District TSA	D	FH Maintenance	3	Fall & burn treatment (trees)	250	250	250	250	250	12	0.048	2	0
Lillooet District TSA	D	FH Maintenance	4	MSMA treatment (trees)	1000	1000	1000	1000	1000	11	0.011	2	0
Lillooet District TSA	D	FH Maintenance	5	Pheromone baiting (trees)	1000	1000	1000	1000	1000	10	0.01	2	0
Priority 2 subtotal										**123**			
Lillooet District TSA	E	Current Fire/Pest	1	Planning/surveys/presc.	280	0	0	0	0	7	0.025	3	0
Lillooet District TSA	E	Current Fire/Pest	3	Planting	40	30	0	0	0	22	0.55	3	0
Priority 3 subtotal										**29**			
Total										**152**			

TFL 15 (Weyerhaeuser) Resource Management Plan

Discussion

RMP Rationale for TFL 15 - August 26, 1999.

Table A

Legal Obligations

Actual Backlog SP workload is estimated to consist of SU RG PLOT and SU FG PLOT. Backlog activities to flow from scheduled surveys. Regen surveys to be given funding priority over Free Growing surveys. The time frame given for RMP preparation is insufficient to accurately assess Backlog SP obligations.

Backlog Reforestation

Surveys/prescriptions of known NSR (before any reclassification).
Site prep to support truly NSR areas that require treatment prior to planting.
Seed/seedling purchase to support ongoing planting.

Impeded Areas

Surveys to be completed for areas with little or very old information; areas with known or assumed impediments to Free Growing and areas where density is assumed to be greater than 10,000 sph.
Brushing treatments to truly impeded stands, i.e. stands not Free Growing using 1999 Interim FG standards.

Table B

Stand Management Prescriptions for stands >10,000 sph. Experienced costs hover around $200/ha. High unit costs are a result of ongoing study and discussion of Pine density regimes.

Juvenile spacing planned at steady state to liquidate stands >10,000sph within 4 years. Four years are required to finish due to NSR/Planting/Surveying costs. Ongoing surveys are anticipated to identify a decreasing amount of maximum density spacing.

Pruning is ongoing to salvage low-density pine stands that originated from early spacing programs. Pruning is required to salvage wood quality for MSR grades. Pruning increases in year 5 when maximum density spacing is largely complete.

Table C

Forest Health Management Plan for TFL 15 will be retrofitted to Terrestrial Ecosystem Mapping for TFL 15 to prepare statistically defensible plan.

Table G

Only very limited opportunities exist for stand conversion, fill planting and conversion of brush fields to commercial cover. TFL 15 is known to have few brush problems and what little NCBr there is has ecological/wildlife values.

Significant areas of IDF stands have mistletoe/NSR/growth &yield issues that require further study to ascertain opportunities. RMP will be updated when these are identified.

Tree Farm License 15
Table A: Backlog Activities
August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Legal Obligations								
1 Planning/surveys/prescriptions	100	100	100	100	100	$2	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	100	100	100	100	100	2	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	50	50	50	50	50	$1	$0	1
2 Site preparation	5	25	25	25	25	5	1	1
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	5	25	25	25	25	3	1	1
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	5	5	5	5	5	2	0	1
Totals	65	105	105	105	105	$11	$0	
Impeded areas								
1 Planning/surveys/prescriptions	250	250	250	250	250	5	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	10	10	10	10	10	8	1	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	260	260	260	260	260	$13	$0	
Backlog Activities - Management Unit Total								
1 Planning/surveys/prescriptions	400	400	400	400	400	$8	$0	

2	Site preparation	5	25	25	25	25	5	1	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	5	25	25	25	25	3	1	
5	Brushing	10	10	10	10	10	8	1	
6	Seed purchase	5	5	5	5	5	2	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	425	465	465	465	465	$26	$0	

* see attatched rationale sheet

2	Site preparation	5	25	25	25	25	5	1	
3	Site restoration road/land rehab	0	0	0	0	0	0	0	
4	Planting	5	25	25	25	25	3	1	
5	Brushing	10	10	10	10	10	8	1	
6	Seed purchase	5	5	5	5	5	2	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	0	0	0
	Totals	425	465	465	465	465	$26	$0	

* see attatched rationale sheet

Tree Farm License 15
Table B: Stand Tending Activities
August 26, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	100	100	100	100	100	$20	$0	1
2 Spacing	50	50	50	50	5	80	2	1
3 Pruning	5	5	5	5	75	5	1	2
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	155	155	155	155	180	105	$1	

Tree Farm License 15
Table C: Forest Health Enhancement Activities
August 26, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies (Forest Health Mgmt Plan)	48000	0	0	0	0	20	0.00	1
5 Others(surveys)	0	0	0	0	0	0	0	0
Totals	48000	0	0	0	0	$20	$0.00	

Tree Farm License 15
Table D: Forest Health Maintenance Activities
August 26, 1999

Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	$0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	$0	0	0
4 MSMA treatment	trees	0	0	0	0	0	$0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	$0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	$0	0	0
7 Studies	number	0	0	0	0	0	$0	0	0
8 Other		0	0	0	0	0	$0	0	0
Totals		0	0	0	0	0	$0	$0	

Penticton Forest District
Table E: Current Fire and Pest Activities
August 18, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

Tree Farm License 15
Table F: Habitat Supply Activities
August 18, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Tree Farm License 15
Table G: Incremental Reforestation
August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

Tree Farm License 15

Summary Table

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	425	465	465	465	465	26	0	
Table B: Stand Tending Activities	155	155	155	155	180	105	1	
Table C: Forest Health Enhancement Activities	48,000	0	0	0	0	20	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	48,580	620	620	620	645	151	1	

					Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Table and category			**Activity**		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlo	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0

	g												
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		4	Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending		5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		6	Other	0	0	0	0	0	0	0	0	0

C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Ot her	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Ot her	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0

F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0
A	Backlog Legal	1	Planning/surveys/presc.	100	100	100	100	100	2	0	1	0
A	Backlog Backlog	1	Planning/surveys/presc.	50	50	50	50	50	1	0	1	0
A	Backlog Backlog	2	Site preparation	5	25	25	25	25	5	1	1	0
A	Backlog Backlog	4	Planting	5	25	25	25	25	3	1	1	0
A	Backlog Backlog	6	Seed Purchase	5	5	5	5	5	2	0	1	0
A	Backlog Impeded	1	Planning/surveys/presc.	250	250	250	250	250	5	0	1	0
A	Backlog Impeded	4	Brushing	10	10	10	10	10	8	1	1	0
B	Stand Tending	1	Planning/surveys/presc.	100	100	100	100	100	20	0	1	0
B	Stand Tending	2	Spacing	50	50	50	50	5	80	2	1	0
C	FH Enhancement	4	Studies	48,000	0	0	0	0	20	0	1	0
B	Stand Tending	3	Pruning	5	5	5	5	75	5	1	2	0
	Totals			48,580	620	620	620	645	$151			

TFL 15 SH Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	**Table and category**				**Activity**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Tree Farm License 15	A	Backlog	Legal	1	Planning/surveys /presc.	100	100	100	100	100		2	20	1	0
Tree Farm License 15	A	Backlog	Backlog	1	Planning/surveys /presc.	50	50	50	50	50		1	20	1	0
Tree Farm License 15	A	Backlog	Backlog	2	Site preparation	5	25	25	25	25		5	1000	1	0
Tree Farm License 15	A	Backlog	Backlog	4	Planting	5	25	25	25	25		3.2	640	1	0
Tree Farm License 15	A	Backlog	Backlog	6	Seed Purchase	5	5	5	5	5		2	400	1	0
Tree Farm License 15	A	Backlog	Impeded	1	Planning/surveys /presc.	250	250	250	250	250		5	20	1	0
Tree Farm License 15	A	Backlog	Impeded	4	Brushing	10	10	10	10	10		8	800	1	0
Tree Farm License 15	B	Stand Tending		1	Planning/surveys /presc.	100	100	100	100	100		20	200	1	0
Tree Farm License 15	B	Stand Tending		2	Spacing	50	50	50	50	5		80	1600	1	0
Tree Farm License 15	C	FH Enhancement		4	Studies	48000	0	0	0	0		20	0.4167	1	0
Priority 1 subtotal												**146.2**			

Tree Farm License 15	B	Stand Tending		3	Pruning		5	5	5	5	75		5	1000	2	0
Priority 2 subtotal													**5**			
Total													**151.2**			

TFL 18 (Slocan) Resource Management Plan

TREE FARM LICENCE 18 (Clearwater).
Table A: Backlog Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	2300	1800	1800	1500	1500	$53	0.02	1
2 Site preparation	30	30	30	20	20	33	1.10	1
3 Planting	120	60	30	30	30	58	0.48	1
4 Brushing	50	50	50	50	50	60	1.20	1
5 Seed purchase = K	120000	60000	30000	30000	30000	60	0.00	1
6 Max. density spacing	50	40	40	40	40	60	1.20	1
7 Pruning	1	0	0	0	0	0	0.00	0
Totals	122551	61980	31950	31640	31640	324	0.00	
Backlog Reforestation								
1 Planning/surveys/prescriptions	500	500	500	400	400	$12	0.02	2
2 Site preparation	0	0	0	0	0	0	0.00	0
3 Site restoration road/land. rehab	20	20	5	0	0	36	1.80	2
4 Planting	40	40	20	20	20	19	0.48	2
5 Brushing	0	0	0	0	0	0	0.00	0
6 Seed purchase,= 1000	40000	40000	20000	20000	20000	20	0.00	1
Totals	40560	40560	20525	20420	20420	$87	0.00	
Impeded areas								
1 Planning/surveys/prescriptions	200	200	200	100	100	$5	0.02	1
2 Site preparation	0	0	0	0	0	0	0.00	0
3 Planting	0	0	0	0	0	0	0.00	0
4 Brushing	0	0	0	0	0	0	0.00	0
5 Seed purchase	0	0	0	0	0	0	0.00	0
Totals	200	200	200	100	100	$5	0.02	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	3000	2500	2500	2000	2000	$69	0.02	
2	Site preparation	30	30	30	20	20	33	1.10	
3	Site restoration road/land. rehab	20	20	5	0	0	36	1.80	
4	Planting	160	100	50	50	50	77	0.48	
5	Brushing	50	50	50	50	50	60	1.20	
6	Seed purchase	160000	100000	50000	50000	50000	80	0.00	
7	Max. density spacing	50	40	40	40	40	60	1.20	
8	Pruning	1	0	0	0	0	0	0.00	
9	Studies	0	0	0	0	0	0	0.00	0
	Totals	163311	102740	52675	52160	52160	$415	0.00	

TREE FARM LICENCE 18 (Clearwater)
Table B: Stand Tending Activities
September 30, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	200	200	200	200	200	$5	$0	2
2 Spacing	50	50	50	50	50	60	1	2
3 Pruning	60	60	60	60	60	78	1	2
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	310	310	310	310	310	143	$0	

TREE FARM LICENCE 18 (Clearwater)
Table C: Forest Health Enhancement Activities
September 30, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

TREE FARM LICENCE 18 (Clearwater)

Table D: Forest Health Maintenance Activities

September 30, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	200	0	200	0	0	$8	$0	1
2 Aerial Surveys	hours of flying time	15	15	15	0	0	15	1	1
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		215	15	215	0	0	$23	$0	

TREE FARM LICENCE 18 (Clearwater)
Table E: Current Fire and Pest Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

TREE FARM LICENCE 18 (Clearwater)
Table F: Habitat Supply Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

TREE FARM LICENCE 18 (Clearwater)
Table G: Incremental Reforestation
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	200	100	50	50	50	$5	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	200	100	50	50	50	5	$0	
Rehabilitation of Poorly Performing Stands								
1	15	20	20	20	20	$21	$1	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	15	20	20	20	20	$21	$1	
Road, Landing, Hillslope and Riparian Reforestation								
1	20	20	0	0	0	$10	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	20	20	0	0	0	$10	$0	
Incremental Reforestation - Management Unit Total	235	140	70	70	70	35	$0	2

TREE FARM LICENCE 18 (Clearwater)
Summary Table
September 30, 1999

Table Totals	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	163,311	102,740	52,675	52,160	52,160	415	0	
Table B: Stand Tending Activities	310	310	310	310	310	143	0	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	215	15	215	0	0	23	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	235	140	70	70	70	35	0	
Totals of all tables	164,071	103,205	53,270	52,540	52,540	616	1	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		4	Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending		5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement		1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement		2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement		3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement		4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement		5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance		3	Fall & burn treatment	0	0	0	0	0	0	0	0	0

				(trees)									
D	FH Maintenance		4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest		7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply		1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply		2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply		3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply		4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply		5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply		6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply		7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply		8	Others	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	1	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	1	Planning/surveys/presc.	2,300	1,800	1,800	1,500	1,500	53	0	1	0
A	Backlo	Legal	2	Site preparation	30	30	30	20	20	33	1	1	0

	g											
A	Backlog	Legal	3	Planting	120	60	30	30	30	58	0	1	0
A	Backlog	Legal	4	Brushing	50	50	50	50	50	60	1	1	0
A	Backlog	Legal	5	Seed Purchase	120,000	60,000	30,000	30,000	30,000	60	0	1	0
A	Backlog	Legal	6	Max. density spacing	50	40	40	40	40	60	1	1	0
A	Backlog	Backlog	6	Seed Purchase	40,000	40,000	20,000	20,000	20,000	20	0	1	0
A	Backlog	Impeded	1	Planning/surveys/presc.	200	200	200	100	100	5	0	1	0
D	FH Maintenance		1	Ground Surveys (ha)	200	0	200	0	0	8	0	1	0
D	FH Maintenance		2	Aerial Surveys (hours flying)	15	15	15	0	0	15	1	1	0
G	Incremental Reforestation				235	140	70	70	70	35	0	2	0
A	Backlog	Backlog	1	Planning/surveys/presc.	500	500	500	400	400	12	0	2	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	20	20	5	0	0	36	2	2	0
A	Backlog	Backlog	4	Planting	40	40	20	20	20	19	0	2	0
B	Stand Tending		1	Planning/surveys/presc.	200	200	200	200	200	5	0	2	0
B	Stand Tending		2	Spacing	50	50	50	50	50	60	1	2	0
B	Stand Tendin		3	Pruning	60	60	60	60	60	78	1	2	0

g										
Totals		164,071	103,205	53,270	52,540	52,540	$616			

TFL 18 SH Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/2001	2001/2002	2002/2003	2003/2004	2004/2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
FRBC Eligible Activities															
TFL 18 (Clearwater)	A	Backlog	Legal	1	Planning/surveys/presc.	2300	1800	1800	1500	1500		52.9	0.023	1	0
TFL 18 (Clearwater)	A	Backlog	Legal	2	Site preparation	30	30	30	20	20		33	1.1	1	0
TFL 18 (Clearwater)	A	Backlog	Legal	3	Planting	120	60	30	30	30		57.6	0.48	1	0
TFL 18 (Clearwater)	A	Backlog	Legal	4	Brushing	50	50	50	50	50		60	1.2	1	0
TFL 18 (Clearwater)	A	Backlog	Legal	5	Seed Purchase	120000	60000	30000	30000	30000		60	0.0005	1	0
TFL 18 (Clearwater)	A	Backlog	Legal	6	Max. density spacing	50	40	40	40	40		60	1.2	1	0
TFL 18 (Clearwater)	A	Backlog	Backlog	6	Seed Purchase	40000	40000	20000	20000	20000		20	0.0005	1	0
TFL 18 (Clearwater)	A	Backlog	Impeded	1	Planning/surveys/presc.	200	200	200	100	100		4.6	0.023	1	0
Priority 1 subtotal												**348.1**			

TFL 18 (Clearwater)	G	Incremental Reforestation					235.01	140	70	70	70		35.4	0.1506	2	0
TFL 18 (Clearwater)	A	Backlog	Backlog	1	Planning/surveys/presc.		500	500	500	400	400		11.5	0.023	2	0
TFL 18 (Clearwater)	A	Backlog	Backlog	3	Site Restoration Road/land. rehab		20	20	5	0	0		36	1.8	2	0
TFL 18 (Clearwater)	A	Backlog	Backlog	4	Planting		40	40	20	20	20		19.2	0.48	2	0
TFL 18 (Clearwater)	B	Stand Tending		1	Planning/surveys/presc.		200	200	200	200	200		4.6	0.023	2	0
TFL 18 (Clearwater)	B	Stand Tending		2	Spacing		50	50	50	50	50		60	1.2	2	0
TFL 18 (Clearwater)	B	Stand Tending		3	Pruning		60	60	60	60	60		78	1.3	2	0
TFL 18 (Clearwater)	A	Backlog	Backlog	2	Site preparation		0.001	0	0	0	0		0	0	9	0
Priority 2 subtotal													**244.7**			
TOTAL FRBC													**592.9**			
MOF responsibilities																
TFL 18 (Clearwater)	D	FH Maintenance		1	Ground Surveys (ha)		200	0	200	0	0		6	0.03	1	0
TFL 18 (Clearwater)	D	FH Maintenance		2	Aerial Surveys (hours flying)		15	15	15	0	0		15	1	1	0
MOF total													**21**			

THOMPSON OKANAGAN REGION

RESOURCE MANAGEMENT PLAN

2000-01

Volume II

British Columbia
Ministry of Forests
Ministry of Environment, Lands & Parks

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TFL 33 (Federated Cooperatives) Resource Management Plan

TREE FARM LICENCE 33
Table A: Backlog Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	0	0	0	0	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	
Impeded areas								
1 Planning/surveys/prescriptions	50	50	50	50	50	$10	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	30	30	30	30	30	9	0	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	80	80	80	80	80	$19	$0	

Backlog Activities - Management
Unit Total

1	Planning/surveys/prescriptions	50	50	50	50	50	$10	$0	
2	Site preparation	0	0	0	0	0	0	0	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	0	0	0	0	0	0	0	
5	Brushing	30	30	30	30	30	9	0	
6	Seed purchase	0	0	0	0	0	0	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	80	80	80	80	80	$19	$0	

TREE FARM LICENCE 33
Table B: Stand Tending Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	160	80	80	80	80	$8	$0	1
2 Spacing	30	30	30	30	30	30	1	2
3 Pruning	30	30	30	70	70	36	1	2
4 Fertilizing	100	100	100	100	100	20	0	1
5 Studies	30	30	30	30	30	1	0	2
6 Other	0	0	0	0	0	0	0	0
Totals	350	270	270	310	310	95	$0	

TREE FARM LICENCE 33
Table C: Forest Health Enhancement Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning-Pw	50	50	50	50	50	15	0	2
4 Studies	74	0	0	0	0	3	0	1
5 Others	0	0	0	0	0	0	0	0
Totals	124	50	50	50	50	$18	$0	

TREE FARM LICENCE 33
Table D: Forest Health Maintenance Activities
Prepared: August 26, 1999

	Activities	**Units**	**Five-year Plan Goals (ha)**					**Annual Plan 2000/01**		
			2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2	Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3	Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4	MSMA treatment	trees	0	0	0	0	0	0	0	0
5	Pheromone baiting	trees	0	0	0	0	0	0	0	0
6	Defoliator spraying	ha	0	0	0	0	0	0	0	0
7	Studies	number	0	0	0	0	0	0	0	0
8	Other		0	0	0	0	0	0	0	0
	Totals		0	0	0	0	0	$0	$0	

TREE FARM LICENCE 33
Table E: Current Fire and Pest Activities
Prepared: August 26, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Max. density spacing	0	0	0	0	0	0	0	0
6	Studies	0	0	0	0	0	0	0	0
7	Other	0	0	0	0	0	0	0	0
	Totals	$0	$0	$0	$0	$0	$0	$0	

TREE FARM LICENCE 33
Table F: Habitat Supply Activities
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

TREE FARM LICENCE 33
Table G: Incremental Reforestation
Prepared: August 26, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1 Planning/surveys/prescription	50	30	20	30	20	$4	$0	2
2 Site preparation	50	30	20	30	20	45	1	2
3 Planting	0	50	30	20	30	0	0	2
4 Brushing	0	25	25	20	20	0	0	2
5	0	0	0	0	0	0	0	
Totals	100	135	95	100	90	$49	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1 spur roads/landings	15	15	15	15	15	$15	$1	2
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	15	15	15	15	15	$15	$1	
Incremental Reforestation - Management Unit Total	115	150	110	115	105	64	$1	2

TREE FARM LICENCE 33
Summary
Table
Prepared: August 26, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	80	80	80	80	80	19	0	
Table B: Stand Tending Activities	350	270	270	310	310	95	0	
Table C: Forest Health Enhancement Activities	124	50	50	50	50	18	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	115	150	110	115	105	64	1	
Totals of all tables	669	550	510	555	545	196	1	

		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Table and category	**Activity**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority

A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	4	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	6	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0

A	Backlog Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0

F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	1	Planning/surveys/presc.	50	50	50	50	50	10	0	1	0
A	Backlog Impeded	4	Brushing	30	30	30	30	30	9	0	1	0
B	Stand Tending	1	Planning/surveys/presc.	160	80	80	80	80	8	0	1	0
B	Stand Tending	4	Fertilizing	100	100	100	100	100	20	0	1	0
C	FH Enhancement	4	Studies	74	0	0	0	0	3	0	1	0
B	Stand Tending	2	Spacing	30	30	30	30	30	30	1	2	0
B	Stand Tending	3	Pruning	30	30	30	70	70	36	1	2	0
B	Stand Tending	5	Studies	30	30	30	30	30	1	0	2	0
C	FH Enhancement	3	Pruning	50	50	50	50	50	15	0	2	0
G	Incremental Reforestation			115	150	110	115	105	64	1	2	0
	Totals			669	550	510	555	545	$196			

TFL 33 SH Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	**Table and category**				**Activity**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
FRBC Eligible Activities															
TFL 33	A	Backlog	Impeded	1	Planning/surveys/presc.	50	50	50	50	50		10	0.2	1	0
TFL 33	A	Backlog	Impeded	4	Brushing	30	30	30	30	30		9	0.3	1	0
TFL 33	B	Stand Tending		1	Planning/surveys/presc.	160	80	80	80	80		8	0.05	1	0
TFL 33	B	Stand Tending		4	Fertilizing	100	100	100	100	100		20	0.2	1	0
TFL 33	C	FH Enhancement		4	Studies	74	0	0	0	0		3	0.0405	1	0
Priority 1 subtotal												**50**			
TFL 33	B	Stand Tending		2	Spacing	30	30	30	30	30		30	1	2	0
TFL 33	B	Stand Tending		3	Pruning	30	30	30	70	70		36	1.2	2	0
TFL 33	B	Stand Tending		5	Studies	30	30	30	30	30		1.2	0.04	2	0

TFL 33	C	FH Enhancement		3	Pruning		50	50	50	50	50		15	0.3	2	0
TFL 33	G	Incremental Reforestation					115.01	150	110	115	105		64	0.5565	2	0
Priority 2 subtotal													**146.2**			
Total													**196.2**			

TFL 35 (Weyerhaeuser) Resource Management Plan

TREE FARM LICENCE 35
Table A: Backlog Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$36	$36,000	1
2 Site preparation	0	0	0	0	0	19	19,250	1
3 Planting	0	0	0	0	0	10	10,000	1
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	5	4,500	1
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	70	$9,964	
Backlog Reforestation								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	0	0	0	0	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	
Impeded areas								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	50	50,000	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$50	$10,000	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	0	0	0	0	0	$36	$12,000	
2	Site preparation	0	0	0	0	0	19	6,417	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	0	0	0	0	0	10	3,333	
5	Brushing	0	0	0	0	0	50	16,667	
6	Seed purchase	0	0	0	0	0	5	1,500	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	0	0	0	0	0	$120	$6,303	

TREE FARM LICENCE 35
Table B: Stand Tending Activities
September 30, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	0	0	0	0	0	$20	$20,000	1
2	Spacing	0	0	0	0	0	39	38,500	3
3	Pruning	0	0	0	0	0	40	40,000	3
4	Fertilizing	0	0	0	0	0	30	30,000	2
5	Studies	1	0	0	0	0	83	83	2
6	Other	0	0	0	0	0	0	0	0
	Totals	1	0	0	0	0	212	$211	

Drybelt Fir study includes TFL and non-TFL areas

TREE FARM LICENCE 35
Table C: Forest Health Enhancement Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

TREE FARM LICENCE 35
Table D: Forest Health Maintenance Activities
September 30, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

TREE FARM LICENCE 35
Table E: Current Fire and Pest Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

TREE FARM LICENCE 35
Table F: Habitat Supply Activities
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

TREE FARM LICENCE 35
Table G: Incremental Reforestation
September 30, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1 Plant & Fertilize landings	0	0	0	0	0	$45	$45,000	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$45	$9,000	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	45	$3,000	2

TREE FARM LICENCE 35

Summary Table September 30, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	0	0	0	0	0	120	6,303	
Table B: Stand Tending Activities	1	0	0	0	0	212	211	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	45	3,000	
Totals of all tables	1	0	0	0	0	377	9,513	

Table and category			Activity		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
					2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	4	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	6	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlo	Total	7	Studies	0	0	0	0	0	0	0	0	0

	g										
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0

F	Habitat Supply		3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply		4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply		5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply		6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply		7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply		8	Others	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	36	36,000	1	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	19	19,250	1	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	10	10,000	1	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	5	4,500	1	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	50	50,000	1	0
B	Stand Tending		1	Planning/surveys/presc.	0	0	0	0	0	20	20,000	1	0
B	Stand Tending		4	Fertilizing	0	0	0	0	0	30	30,000	2	0
B	Stand Tending		5	Studies	1	0	0	0	0	83	83	2	0
G	Incremental Reforestation				0	0	0	0	0	45	3,000	2	0
B	Stand Tending		2	Spacing	0	0	0	0	0	39	38,500	3	0
B	Stand Tendin		3	Pruning	0	0	0	0	0	40	40,000	3	0

g										
Totals		1	0	0	0	0	$377			

TFL 35 SH Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
FRBC Eligible Activities															
TFL 35	A	Backlog	Legal	1	Planning/surveys/ presc.	0.001	0	0	0	0		36	36000	1	0
TFL 35	A	Backlog	Legal	2	Site preparation	0.001	0	0	0	0		19.25	19250	1	0
TFL 35	A	Backlog	Legal	3	Planting	0.001	0	0	0	0		10	10000	1	0
TFL 35	A	Backlog	Legal	5	Seed Purchase	0.001	0	0	0	0		4.5	4500	1	0
TFL 35	A	Backlog	Impeded	4	Brushing	0.001	0	0	0	0		50	50000	1	0
TFL 35	B	Stand Tending		1	Planning/surveys/ presc.	0.001	0	0	0	0		20	20000	1	0
Priority 1 subtotal												**139.8**			

TFL 35	B	Stand Tending	4	Fertilizing		0.001	0	0	0	0		30	30000	2	0
TFL 35	B	Stand Tending	5	Studies		1	0	0	0	0		83.318	83.318	2	0
TFL 35	G	Incremental Reforestation				0.015	0	0	0	0		45	3000	2	0
Priority 2 subtotal												**158.3**			
TFL 35	B	Stand Tending	2	Spacing		0.001	0	0	0	0		38.5	38500	3	0
TFL 35	B	Stand Tending	3	Pruning		0.001	0	0	0	0		40	40000	3	0
Priority 3 subtotal												**78.5**			
TOTAL												**376.6**			

TFL 49 (Riverside) Resource Management Plan (2000 – 2005)

Introduction

This five year (2000 – 2005) Resource Management Plan has been prepared for the Management Unit of TFL 49 towards the development of a Regional Resource Management Plan as requested by Forest Renewal BC. This plan uses the format provided for the Sustainable Harvest Program and includes references to the programs known as Strengthening Sustainable Forest Management and Enhancing Environmental Values.

1.0 Basic Data on TFL 49

1.1 Location And Manufacturing Facilities

TFL 49 (approximately 144,000 ha) consists of three blocks. The TFL was designated as a result of an amalgamation in 1984 of Tree Farm Licences No. 9 (Block A), No. 16 (Block B), and No. 32 (Block C). Management on this area-based licence has been conducted for over 45 years. Block A is situated West of Okanagan Lake to the height of land between the Okanagan and Nicola drainages, and north of Lambly Creek, to the Naswhito Creek drainage. Block B adjoins the North West portion of Block A, runs West of Bouleau Lake, bounded on the South by the Salmon River drainage, to Salmon Lake, North to Monte Lake and West to the Monte Hills and Weyman Creek drainage. Block C is separate from the rest of the TFL. It is located north of Falkland and east of Pillar Lake towards the Salmon River.

Riverside's two main manufacturing facilities supplied by TFL 49 are located on the East side of Okanagan Lake at Armstrong and Kelowna. Logs that are not suitable for plywood manufacture, or do not fit our sawmill configuration, are generally sold or traded to other local manufacturers.

1.2 Timber Management Objectives

The short and long-term availability of timber on TFL 49 has been examined in the Timber Supply Analysis Report. The analysis evaluates how current management, and non-timber resources, affects the supply of harvestable timber over a 250-year period. It also quantifies the sensitivity of the results to uncertainty associated with modelling inputs. The timber supply analysis provides the technical basis for the Chief Forester of British Columbia to determine an AAC for TFL 49 for the term of this plan.

Riverside's management plan maintains the currently approved AAC of 380,000 cubic metres per year, not including unrecoverable losses. This goal is inclusive of the small business allocation of 36,905 cubic metres per year (9.7%). For the purposes of timber supply analysis, the objective is to maintain the harvest at or above the long run sustainable yield level. Short-term harvests may be above a basic sustainable level without compromising future harvests.

The long-term objective of Riverside is to produce logs of suitable species and quality for the profitable manufacture of lumber and plywood.

2.0 Total Area

The total area of TFL 49 is 143,760 ha. This is composed of 1,449 ha of water, 6,887 ha of non-forest and non-productive land and 135,424 ha of productive forest land.

3.0 Current Harvest Forecast

The Current Management Option includes the following assumptions or inputs as defined in the Timber Supply Analysis Information Package:

- Management activity as defined by operations over the last 5 years;
- Implementation of the Forest Practices Code (FPC) as it was interpreted August 1997, including riparian management, stand level biodiversity, and low emphasis landscape biodiversity guidelines;
- An up-to-date Vegetation Resources Inventory (VRI);
- Partial implementation of adjustments for negative site index bias in old growth stands;
- VDYP natural stand yields and WinTIPSY managed stand yields;
- Current utilization standards;
- Visual quality objectives;
- Wildlife management;
- Genetic gains from tree improvement;
- Basic silviculture; and
- Consideration of problem forest types and forest health consistent with current management.

Figure 4.1 presents the harvest forecast resulting from the current management assumptions and the harvest flow assumptions discussed above. The current AAC of 380,000 m^3 can be maintained for two decades after which harvests decline through six decades to a minimum level followed by an increase to a long-term sustainable level of 290,000 m^3. Figure 4.1 also displays the theoretical long run sustainable yield figure based on managed stand yields. IRM constraints, which retain timber past culmination age, are the main cause of the difference between the theoretical value and attainable levels. Table 4.2 provides the actual harvest values used in Figure 4.1.

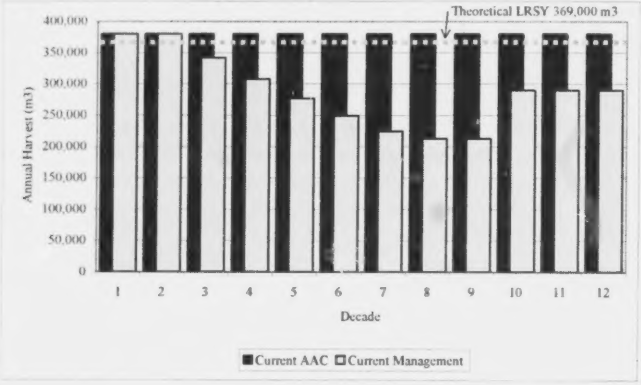

Figure 4.1 Current Management harvest schedule

Table 4.2 Harvest schedule – Current Management Option

Decade	Current AAC	Current Management
1	380,000	380,000
2	380,000	380,000
3	380,000	342,000
4	380,000	307,800
5	380,000	277,020
6	380,000	249,318
7	380,000	224,386
8	380,000	213,167
9	380,000	213,167
10	380,000	290,000
11	380,000	290,000
12	380,000	290,000

Table 4-3 Site Class Profile and Analysis Units

Analysis Unit #	Species	TSA Block	Site Index Class	Net Area (ha)	% of Net Land Base
1	Douglas-fir (<= 140 years)	A,B,C	1	4,905	3.92
2			2	11,555	9.24
3			3	9,330	7.46
4	Pine (<= 140 years)	A,B,C	1	5,294	4.23
5			2	21,669	17.33
6			3	20,834	16.66
7	Balsam (<= 140 years)	A,B,C	1	1,876	1.50
8			2	4,801	3.84
9			3	4,927	3.94
10	Spruce (<= 140 years)	A,B,C	1	1,326	1.06
11			2	4,171	3.34
12			3	2,948	2.36
31	Douglas-fir (> 140 years)	A,C	1	625	0.50
32			2	3,321	2.66
33			3	2,838	2.27
34	Pine (> 140 years)	A,C	1	791	0.63
35			2	3,061	2.45
36			3	1,624	1.30
37	Balsam (> 140 years)	A,C	1	73	0.06
38			2	1,132	0.91
39			3	2,288	1.83
40	Spruce (> 140 years)	A,C	1	1,452	1.16
41			2	4,256	3.40
42			3	3,131	2.50
51	Douglas-fir (> 140 years)	B	1	125	0.10
52			2	910	0.73
53			3	3,044	2.43
54	Pine (> 140 years)	B	1	48	0.04
55			2	438	0.35
56			3	433	0.35
57	Balsam (> 140 years)	B	1	15	0.01
58			2	50	0.04
59			3	415	0.33
60	Spruce (> 140 years)	B	1	207	0.17
61			2	227	0.18
62			3	879	0.70
97	Deciduous	A,B,C	1	0	0
98			2	0	0
99			3	0	0
Total				125,022	100

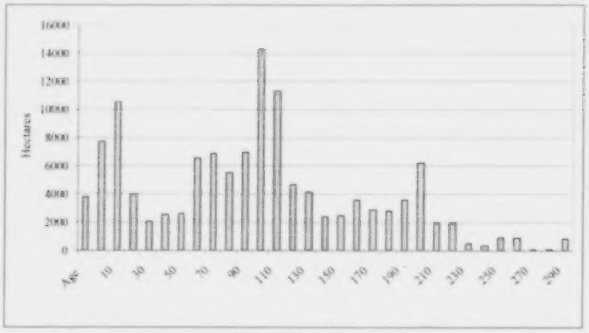

Figure 4.2 Age Class Profile

Table 4.4 Age class distribution

Leading Age	Area (ha)
0	3,782
10	7,743
20	10,549
30	4,025
40	2,042
50	2,563
60	2,593
70	6,560
80	6,902
90	5,519
100	6,955
110	14,273
120	11,331
130	4,662
140	4,146
150	2,380
160	2,478
170	3,603
180	2,869
190	2,846
200	3,585
210	6,212
220	1,910
230	1,952
240	484
250	333
260	893
270	869
280	46
290	91
300	825

4.0 Timber Supply Issues

4.1 Sensitivities

Sensitivities involving aggressive basic silviculture indicated no short-term effect. Switching to all regeneration by planting yields long-term benefits due to the increased productivity of the stands and pushes mid-term levels up slightly due to lower average culmination values. Two metre green-up significantly increases short-term harvest flexibility due to earlier availability of stands but can not overcome the problem of limited mature harvestable timber in the short-term. No harvest level benefits are realized. More stringent constraint regimes could change the balance and make aggressive basic silviculture a positive pressure.

Using 'current management' as the criteria, community watershed management was addressed in a sensitivity run. Application of a 20% maximum disturbance constraint, using a six-metre definition of green-up, in community watersheds has a relatively small negative short-term effect in the context of other current management assumptions.

The Land and Resource Management Plan process will deal with both biodiversity emphasis and the designation of protected areas. Until direction is provided it is speculative to consider the impacts. However several sensitivity analyses were prepared to investigate the possible effects on timber supply. The removal from the timber harvesting land base of Goal One Areas and Areas of Interest as defined for the Protected Areas Strategy (a 9% reduction to the net harvesting land base) has significant impacts throughout the analysis period. The way in which biodiversity constraints are being applied masks the impact of switching emphasis levels, and the sensitivities on this show little effect. If full implementation of the Biodiversity Guidebook were implemented the impact is severe and immediate (Figure 5.1).

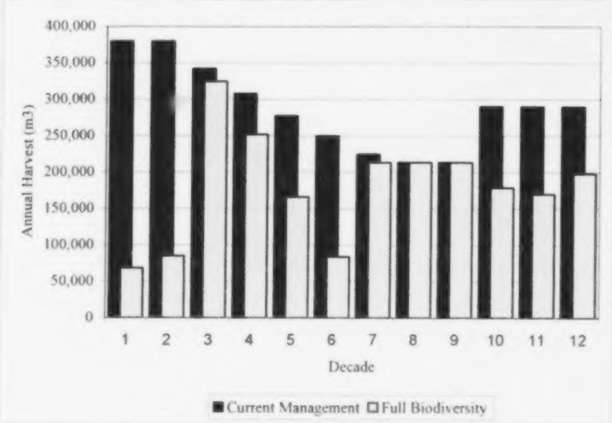

Figure 5.1 Full biodiversity constraints using a 45/45/10 average emphasis ***(from Timber Supply Analysis Report, February, 1998)***

Landscape biodiversity constraints applied at the subzone level, rather than the biogeoclimatic zone level, had little impact on the analysis. These are the only levels to which the biodiversity constraints could practically be applied on the TFL.

Wildlife tree patches, by virtue of their operational nature, are difficult to deal with in a strategic analysis. The full spectrum of structures able to contribute to stand level biodiversity can not be identified. By following the recognized methodology for determining a land base reduction for tree patches the need has likely been overestimated.

A sensitivity analysis setting a harvest priority for pine (98% of the harvest from pine stands in the first 50 years) indicated only a small mid-term positive impact. From an operational point of view, such a restriction is unrealistic.

The effect of partial harvesting on cover constraints in a forest level analysis is difficult to assess with certainty. Similarly, the productivity characteristics and future yields from partially harvested stands are very uncertain. One would expect the timber supply impacts from partial harvests to be a trade-off between long-term productivity losses and short term increases in operational flexibility. The balance will depend on the characteristics of the forest estate in question. The selective harvest sensitivity indicates no effect in the short-term, but does have a long-term impact.

From the Riverside Management Option as a base, positive pressures on short-term harvest levels include:

- Aggressive silviculture; and
- Wildlife tree patches.

Negative pressures on short-term harvests include:

- Community watersheds;
- Protected areas strategy; and
- Landscape biodiversity guidelines.
-

4.2 Information Gaps

Information gaps that contribute to uncertainty in the planning and management process of the Timber Supply Analysis for TFL 49 and that are considered within the scope of FRBC have been identified as follows:

- A rigorous inventory of streams, wetlands and lakes to FPC standards;
- Data to support the full implementation of adjustments for negative old growth site index bias. This may include a complete site series level biogeoclimatic classification of the TFL that would improve the confidence in productivity estimates used, as well as be useful in the management of non-timber resources;
- Silviculture records including growth intercept data that will improve productivity estimates of plantations;
- Information on the impact on managed stand yields with respect to strict stocking control;
- Documentation of gains from successive generations of genetically improved seed;
- A rigorous methodology to confirm natural stand yields;
- Forest cover constraints for IRM based on the specific requirements and characteristics of TFL 49;
- Data to support revised estimates of unsalvaged losses; and
- Localized operational adjustment factors (OAFs) for managed stand yields.

5.0 Silviculture History

All stands age 30 or less were assigned to managed stand yield curves, reflecting the silviculture history of the licence. Please see Figure 6.1 below. Site preparation and planting began on the TFL in 1971. Stands older than 30 years will be assigned to the appropriate VDYP curves. All regenerated stands, natural or planted will be assigned to managed stand yields reflecting adherence to minimum stocking standards.

Comment: If we have the numbers it may be worthwhile to provide some information regarding the area of the TFL that is in plantation or naturally regenerated. Shane, Hans or Doug Misutka probably have that information rolled up somewhere if it isn't already in the Management Plan.

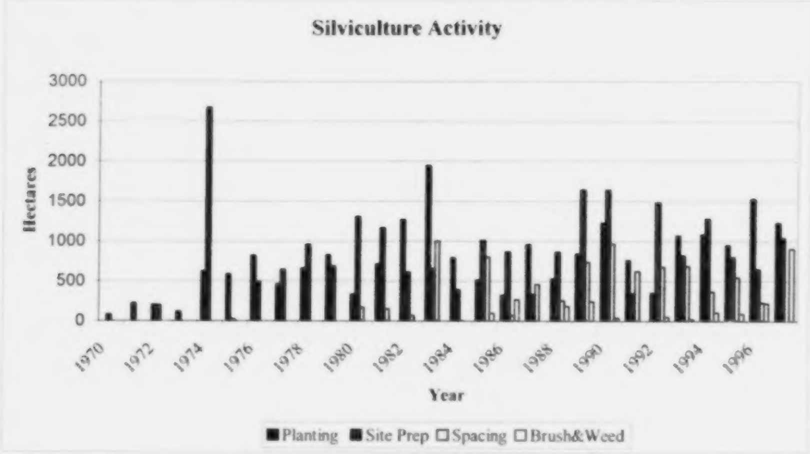

Figure 6.1 Silviculture History on TFL 49

6.0 Opportunities

The Enhanced Forest Management Project will be completed by March 2000. The following summary outlines the issues and opportunities that are anticipated. Once the project is complete, working targets will be available for the 2001/02 RMP. In the meantime, the plan for 2000/01 has been based on comparable programs of recent years.

6.1 Sensitivity Analysis

A sensitivity analysis will be completed to assess the impact of Forest Practices Code guidelines on:

- short and long-term timber availability;
- inventory and growth and yield database enhancements; and
- mitigative effects of enhanced silviculture activities and innovative harvesting techniques.

The Timber Supply Analysis has provided an initial sensitivity analysis using CASH_FM which will be supplemented by additional COMPLAN runs to take into account the spatial considerations.

A key objective of undertaking the sensitivity analysis will be the identification of management strategies which will provide the greatest benefit. In this way, it will be possible to prioritize the additional analysis that will be undertaken. Details of the sensitivity analyses follow.

6.2 Impact of FPC Guidelines

COMPLAN will be used to illustrate the impacts of the following FPC guidelines:

- various green-up standards for visual quality and hydrology;

- proposed Forest Ecosystem Networks (FENs);
- deer winter ranges;
- proposed marten corridors;
- lakeshore management zones; and
- proposed protected areas.

6.3 Inventory and Growth and Yield Database Enhancements

Preliminary analysis indicates that the volumes predicted by the VDYP model significantly underestimate the volume when compared with volume estimates obtained during cutting permit cruising. Furthermore, there is evidence that cruise volumes underestimate the delivered volumes measured at the weigh scale. If these two observations are correct, they have major implications for timber supply in TFL 49. At the current annual allowable cut of 380 000 m^3 per year, significantly less area is required to be harvested annually than that predicted in the Timber Supply Analysis. This will have the effect of extending the availability of mature timber so that the predicted shortfall in 60 to 70 years is mitigated.

A sensitivity analysis will be undertaken with COMPLAN to illustrate the effects that different levels of VDYP volume underestimation have on long-term timber supply. This analysis will be completed by modifying the yield tables to reflect increased volumes and will take into account any effects of spatial relationships and constraints.

There is also concern that the site index values for old growth stands are underestimated. While this does not have an effect on volumes realized from existing stands, it does have implications for height growth (i.e. green-up time), rotation age and volumes for second growth stands. The Timber Supply Analysis has completed a sensitivity analysis with respect to increased site index values as anticipated through the Old Growth Site Index project. Further analysis will be undertaken with COMPLAN to illustrate the effects on timber supply with full spatial resolution.

Several options can be undertaken to enhance the accuracy of the inventory and growth and yield databases. These include:

- a VDYP versus cruise volume study that will meet the requirements of the MoF;
- application of interim Old Growth Site Index (OGSI) adjustments throughout the TFL;
- biogeoclimatic classification of Blocks A and C (Block B has already been completed) of the TFL to allow SIBEC application throughout the TFL;
- an additional OGSI study to address balsam, fir and age class 6 and 7 stands; and
- field surveys to localize the operational adjustment factors (OAFs) used in TIPSY. The MoF is currently developing procedures for doing this.

6.4 Effect of Enhanced Silviculture Activities

Many different enhanced silviculture activities can be carried out on TFL 49. Several examples include:

- fertilization to reduce green-up times;
- shortening regeneration delay;
- increasing target and minimum stocking levels;
- using genetically improved seed;
- using improved site index information;
- using improved forest health information;
- pre-commercial thinning to provide commercial volume earlier in the rotation;
- commercial thinning to provide commercial volume earlier in the rotation;
- upgrading marginally stocked areas;
- site rehabilitation of stands with low productivity; and
- reducing site disturbance.

A sensitivity analysis is required to determine which of these activities can provide the greatest benefit in achieving the timber supply objectives of the TFL while providing adequate or improved levels of non-timber resource values. To complete this sensitivity analysis, it will be necessary to produce new yield tables that reflect the anticipated response of the stands to the various treatments. Research Branch has indicated willingness to assist with this task using the TASS/SYLVER model.

TASS/SYLVER provides a means to predict the effects of different initial spacing densities, pre-commercial spacing regimes and commercial thinning on volume and product mixes (i.e. log size distributions).

Once the yield tables have been produced, it will be possible to select those enhanced silviculture or mensurational activities that are anticipated to have the greatest benefit. COMPLAN will then be used to determine what effect spatial considerations have on realization of these benefits.

7.0 Proposed Sustainable Harvest Program

Backlog Program - Table A
Incremental Silviculture Program - Tables B and G
Forest Health Enhancement Program - Table C
Forest Health Maintenance Program - Table D
Habitat Supply Program - Table F

Summary Table for TFL 49
* no Current Fire and Pest Table E (covered in the Okanagan TSA plan)

8.0 Job Outcomes

Job Outcomes are provided in the Regional RMP Roll-up and have not been included in this plan.

9.0 References

- Proposed Management Plan No. 3 (Jan. 1, 1999 – Dec. 31, 2003) TFL 49, Riverside Forest Products Limited, October 23, 1998.
- Timber Supply Analysis Report, TFL 49 Management Plan No. 3, Riverside Forest Products Limited, February, 1998.
- Timber Supply Analysis Information Package, TFL 49 Management Plan #3, Riverside Forest Products Limited, January, 1998.
- Proposed Enhanced Forest Management Project, TFL 49, Simons Reid Collins., April, 1998

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table A: Backlog Activities
Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0						0	
Totals	0	0	0	0	0	0	$0	

Backlog Reforestation

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	400	400	400	400	400	$9	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	43	38	35	35	35	11	0	1
5 Brushing	10	10	5	5	5	5	0	1
6 Seed purchase	43	38	35	35	35	7	0	1
Totals	496	486	475	475	475	$32	$0	

Impeded areas

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	200	200	200	200	200	$5	$0	1
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	20	20	20	20	20	10	1	1
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	220	220	220	220	220	$15	$0	

Backlog Activities - Management Unit Total

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)
1 Planning/surveys/prescriptions	600	600	600	600	600	$14	$0
2 Site preparation	0	0	0	0	0	0	0
3 Site restoration	0	0	0	0	0	0	0

	road/land. rehab								
4	Planting	43	38	35	35	35	11	0	
5	Brushing	30	30	25	25	25	15	0	
6	Seed purchase	43	38	35	35	35	7	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	716	706	695	695	695	$47	$0	

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table B: Stand Tending Activities
Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	266	266	266	266	266	$5	$0	1
2 Spacing	128	128	128	128	128	75	1	1
3 Pruning	20	20	20	20	20	26	1	2
4 Fertilizing	200	200	200	200	200	60	0	2
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	614	614	614	614	614	166	$0	

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table C: Forest Health Enhancement Activities
Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	32500	0	0	0	0	55	0	1
5 Others	0	0	0	0	0	0	0	0
Totals	32500	0	0	0	0	$55	$0	

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table D: Forest Health Maintenance Activities
Prepared: August 23, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	1095	1095	1095	1095	1095	$22	$0	1
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	230	230	230	230	230	8	0	1
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	
8 Other		0	0	0	0	0	0	0	0
Totals		1325	1325	1325	1325	1325	$30	$0	

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table E: Current Fire and Pest Activities
Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)

Table F: Habitat Supply Activities

Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies: Sullivan *	165	330	330	330	330	20	0	1
8 Others: Sullivan - Monsanto	165	165	165	165	165	20	0	1
Totals	330	495	495	495	495	$40	$0	

* Tom Sulliivan's stand density/habitat project

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Table G: Incremental Reforestation
Prepared: August 23, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	

Rehabilitation of Poorly Performing Stands

1 Overview	10010		0	0	0	$43	$0	1
2 Treatment	0	90	90	120	120		0	1
3	0						0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	10010	90	90	120	120	$43	$0	

Road, Landing, Hillslope and Riparian Reforestation

1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	

Incremental Reforestation - Management Unit Total

	10010	90	90	120	120	43	$0	1

Tree Farm Licence 49 (Armstrong & Kelowna Divisions)
Summary Table
Prepared: August 23, 1999

Table Totals	Five-Year Plan Goals (ha) 2000/2001	2001/2002	2002/2003	2003/2004	2004/2005	Annual Plan 2000/01 Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	716	706	695	695	695	47	0	
Table B: Stand Tending Activities	614	614	614	614	614	166	0	
Table C: Forest Health Enhancement Activities	32,500	0	0	0	0	55	0	
Table D: Forest Health Maintenance Activities	1,325	1,325	1,325	1,325	1,325	30	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	330	495	495	495	495	40	0	
Table G: Incremental Reforestation	10,010	90	90	120	120	43	0	
Totals of all tables	45,495	3,230	3,219	3,249	3,249	381	0	

Table and	**Activity**	Five-Year Plan Goals (ha) 2000/2001	2001/2002	2002/2003	2003/2004	2004/2005	Annual Plan 2000/01 Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority

category													
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tendin		6	Other	0	0	0	0	0	0	0	0	0

	g											
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
A	Backlo Legal	7	Pruning	0	0	0	0	0	0	0	0	0

	g											
C	FH Enhancement	4	Studies	32,500	0	0	0	0	55	0	1	0
F	Habitat Supply	8	Others	165	165	165	165	165	20	0	1	0
G	Incremental Reforestation			10,010	90	90	120	120	43	0	1	0
A	Backlog Backlog	1	Planning/surveys/presc.	400	400	400	400	400	9	0	1	0
A	Backlog Backlog	4	Planting	43	38	35	35	35	11	0	1	0
A	Backlog Backlog	5	Brushing	10	10	5	5	5	5	0	1	0
A	Backlog Backlog	6	Seed Purchase	43	38	35	35	35	7	0	1	0
A	Backlog Impeded	1	Planning/surveys/presc.	200	200	200	200	200	5	0	1	0
A	Backlog Impeded	4	Brushing	20	20	20	20	20	10	1	1	0
B	Stand Tending	1	Planning/surveys/presc.	266	266	266	266	266	5	0	1	0
B	Stand Tending	2	Spacing	128	128	128	128	128	75	1	1	0
D	FH Maintenance	1	Ground Surveys (ha)	1,095	1,095	1,095	1,095	1,095	22	0	1	0
D	FH Maintenance	3	Fall & burn treatment (trees)	230	230	230	230	230	8	0	1	0
F	Habitat Supply	7	Studies	165	330	330	330	330	20	0	1	0
B	Stand Tending	4	Fertilizing	200	200	200	200	200	60	0	2	0

B	Stand Tending	3	Pruning	20	20	20	20	20		26	1	2	0
	Totals			45,495	3,230	3,219	3,249	3,249		$381			

PRIORITY SUMMARY

TFL 49 SH SUMMARY

						Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
FRBC Eligible														
TFL #49 - Armstrong & Kelowna Divisions	C	FH Enhancement		4	Studies	32500	0	0	0	0	54.77	0.0017	1	0
TFL #49 - Armstrong & Kelowna Divisions	F	Habitat Supply		8	Others	165	165	165	165	165	20	0.1212	1	0
TFL #49 - Armstrong & Kelowna Divisions	G	Incremental Reforestation				10010	90	90	120	120	43	0.0043	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Backlog	1	Planning/surveys/ presc.	400	400	400	400	400	8.8	0.022	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Backlog	4	Planting	43	38	35	35	35	11.2	0.2605	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Backlog	5	Brushing	10	10	5	5	5	4.5	0.45	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Backlog	6	Seed Purchase	43	38	35	35	35	7.4	0.1721	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Impeded	1	Planning/surveys/ presc.	200	200	200	200	200	5	0.025	1	0
TFL #49 - Armstrong & Kelowna Divisions	A	Backlog	Impeded	4	Brushing	20	20	20	20	20	10	0.5	1	0

TFL #49 - Armstrong & Kelowna Divisions	B	Stand Tending	1	Planning/surveys/ presc.	266	266	266	266	266	5	0.0188	1	0
TFL #49 - Armstrong & Kelowna Divisions	B	Stand Tending	2	Spacing	128	128	128	128	128	75	0.5859	1	0
TFL #49 - Armstrong & Kelowna Divisions	F	Habitat Supply	7	Studies	165	330	330	330	330	20	0.1212	1	0
TFL #49 - Armstrong & Kelowna Divisions	B	Stand Tending	4	Fertilizing	200	200	200	200	200	60	0.3	2	0
TFL #49 - Armstrong & Kelowna Divisions	B	Stand Tending	3	Pruning	20	20	20	20	20	26.2	1.31	2	0
										350.9			
MOF responsibilities													
TFL #49 - Armstrong & Kelowna Divisions	D	FH Maintenance	1	Ground Surveys (ha)	1095	1095	1095	1095	1095	21.9	0.02	1	0
TFL #49 - Armstrong & Kelowna Divisions	D	FH Maintenance	3	Fall & burn treatment (trees)	230	230	230	230	230	8	0.0348	1	0
										29.9			

Interfor Innovative Forest Practices Agreement

Adams Lake (Interfor) IFPA Summary *						
IFPA Program	**Activity**	**Fiscal Year Budget (thousands of dollars)**				
		2000/01	01/02	02/03	03/04	04/05
Harvesting program						
	Review commercial thinning		15			

	opportunities					
	Review deciduous species opportunities	20	20			
	Harvesting trials (gravel)	30				
	Harvesting trials (calcium)	30				
	Commercial thinning trial	40	100	50	50	50
Harvesting Program subtotal		**120**	135	50	50	50
Silviculture Program						
	Fertilization	50				
	Enhanced silviculture	100	100	50	50	150
	Timber berth rehabilitation	40				
Silviculture Program subtotal		**190**	100	50	50	150
* from Interfor Forestry Plan #1 - Sept.21/99						

Woodlot Resource Management Plan

There are 6 woodlot associations in the Kamloops Forest Region representing a total of 150 woodlots. The associations and the number of woodlots they represent are:

Clearwater	14 woodlots	Kamloops	32 woodlots
Penticton	13 woodlots	Merritt	26 woodlots
Lillooet	16 woodlots	Shuswap-Okanagan (Vernon & Salmon Arm Forest Districts)	49 woodlots

Issues and opportunities with respect to the Sustainable Harvest Objective vary by woodlot licence and are not discussed here. The proposed programs outlined in the attached tables are based on Opportunity Plans developed in 1998/99 by Extension contractors in conjunction with woodlot associations, discussions with forest district staff and woodlot licensees. Anyone wishing to review the Opportunity Plans should contact the Forest Renewal BC regional office, Kamloops Forest Region or the woodlot association concerned.

Woodlot SH Summary

						Five-Year Plan Goals (ha)						Annual Plan 2000/01			
Management Unit	Table and category				Activity	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005		Funding ($)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Clearwater Woodlot Association	A	Backlog	Backlog	1	Planning/surveys/presc.	5	5	5	5	0		500	100	1	0
Clearwater Woodlot Association	A	Backlog	Backlog	4	Planting	3	5	5	5	5		1500	500	1	0
Clearwater Woodlot Association	B	Stand Tending		1	Planning/surveys/presc.	55	45	45	55	45		7500	136.36	1	0
Clearwater Woodlot Association	B	Stand Tending		2	Spacing	35	30	35	40	35		17500	500	1	0
Clearwater Woodlot Association	A	Backlog	Backlog	2	Site preparation	5	5	5	5	0		3750	750	2	0
Clearwater Woodlot Association	A	Backlog	Backlog	6	Seed Purchase	5	5	5	5	0		1500	300	2	0
Clearwater Woodlot Association	B	Stand Tending		3	Pruning	20	10	10	10	10		10000	500	2	0
												42250			
Kamloops Woodlot Association	A	Backlog	Backlog	4	Planting	5	3	5	5	5		2500	500	1	0
Kamloops Woodlot Association	B	Stand Tending		2	Spacing	40	40	40	40	40		26000	650	1	0

Kamloops Woodlot Association	A	Backlog	Backlog	2	Site preparation	3	5	5	5	5		2250	750	2	0
Kamloops Woodlot Association	A	Backlog	Backlog	6	Seed Purchase	5	3	5	5	5		1500	300	2	0
Kamloops Woodlot Association	B	Stand Tending		3	Pruning	11	10	10	10	10		12200	1109.1	2	0
Kamloops Woodlot Association	B	Stand Tending		4	Fertilizing	27	10	10	10	10		9450	350	3	0
												53900			
Lillooet Woodlot Association	A	Backlog	Backlog	2	Site preparation	5	3	3	2	2		3750	750	1	0
Lillooet Woodlot Association	A	Backlog	Backlog	6	Seed Purchase	5	3	3	2	2		1500	300	1	0
Lillooet Woodlot Association	B	Stand Tending		1	Planning/surveys/presc.	0.001	20	22	22	24		0	0	1	0
Lillooet Woodlot Association	B	Stand Tending		2	Spacing	20	15	17	17	19		11325	566.25	1	0
Lillooet Woodlot Association	A	Backlog	Backlog	1	Planning/surveys/presc.	3	3	2	2	0		500	166.67	2	0
												17075			
Merritt Woodlot Association	A	Backlog	Backlog	1	Planning/surveys/presc.	5	5	5	5	5		1000	200	1	0
Merritt Woodlot Association	A	Backlog	Backlog	2	Site preparation	5	5	5	5	5		3750	750	1	0
Merritt Woodlot Association	B	Stand Tending		1	Planning/surveys/presc.	25	30	30	30	30		4115	164.6	1	0
Merritt Woodlot Association	B	Stand Tending		2	Spacing	25	25	25	25	25		16250	650	1	0

Merritt Woodlot Association	A	Backlog	Backlog	6	Seed Purchase	5	5	5	5	5		1500	300	2	0
												26615			
South Okanagan (Penticton) Woodlot Association	B	Stand Tending		1	Planning/surveys/presc.	40	40	40	40	40		3670	91.75	1	0
South Okanagan (Penticton) Woodlot Association	B	Stand Tending		2	Spacing	40	40	40	40	40		21000	525	1	0
												24670			
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	A	Backlog	Backlog	1	Planning/surveys/presc.	10	10	10	10	10		1000	100	1	0
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	A	Backlog	Backlog	2	Site preparation	20	10	10	10	10		15000	750	1	0
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	B	Stand Tending		1	Planning/surveys/presc.	65	60	60	60	60		7500	115.38	1	0
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	B	Stand Tending		2	Spacing	55	60	60	60	60		35750	650	1	0
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	A	Backlog	Backlog	6	Seed Purchase	20	10	10	10	10		6000	300	2	0
Shuswap Okanagan (Vernon/Salmon Arm) Woodlot Association	B	Stand Tending		3	Pruning	10	5	5	5	5		10000	1000	2	0
												75250			

CLEARWATER WOODLOT ASSOCIATION
Table A: Backlog Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	

Backlog Reforestation

1 Planning/surveys/prescriptions	5	5	5	5	0	$500	$100	1
2 Site preparation	5	5	5	5	0	3,750	750	2
3 Site restoration road/land. rehab	0	0	5	0	5	0	0	0
4 Planting	3	5	5	5	5	1,500	500	1
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	5	5	5	5	0	1,500	300	2
Totals	18	20	25	20	10	$7,250	$403	

Impeded areas

1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Seed purchase	0	0	0	0	0	0	0	0
	Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	5	5	5	5	0	$500	$100	
2	Site preparation	5	5	5	5	0	3,750	750	
3	Site restoration road/land. rehab	0	0	5	0	5	0	0	
4	Planting	3	5	5	5	5	1,500	500	
5	Brushing	0	0	0	0	0	0	0	
6	Seed purchase	5	5	5	5	0	1,500	300	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	18	20	25	20	10	$7,250	$402	

CLEARWATER WOODLOT ASSOCIATION
Table B: Stand Tending Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	55	45	45	55	45	$7,500	$136	1
2 Spacing	35	30	35	40	35	17,500	500	1
3 Pruning	20	10	10	10	10	10,000	500	2
4 Fertilizing	0	5	0	5	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	110	90	90	110	90	35000	$318	

CLEARWATER WOODLOT ASSOCIATION
Table C: Forest Health Enhancement Activities
Prepared: August 11, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

CLEARWATER WOODLOT ASSOCIATION

Table D: Forest Health Maintenance Activities

Prepared: August 11, 1999

			Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	Units	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2	Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3	Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4	MSMA treatment	trees	0	0	0	0	0	0	0	0
5	Pheromone baiting	trees	0	0	0	0	0	0	0	0
6	Defoliator spraying	ha	0	0	0	0	0	0	0	0
7	Studies	number	0	0	0	0	0	0	0	0
8	Other		0	0	0	0	0	0	0	0
	Totals		0	0	0	0	0	$0	$0	

CLEARWATER WOODLOT ASSOCIATION
Table E: Current Fire and Pest Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

CLEARWATER WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

CLEARWATER WOODLOT ASSOCIATION
Table G: Incremental Reforestation
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

CLEARWATER WOODLOT ASSOCIATION
Summary Table
Prepared August 11, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	18	20	25	20	10	7,250	402	
Table B: Stand Tending Activities	110	90	90	110	90	35,000	318	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	128	110	115	130	100	42,250	721	

		Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Table and	**Activity**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority

category													
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	5	0	5	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlo	Total	7	Studies	0	0	0	0	0	0	0	0	0

	g											
B	Stand Tending	4	Fertilizing	0	5	0	5	0	0	0	0	0
B	Stand Tending	5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0

E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0
A	Backlog Backlog	1	Planning/surveys/presc.	5	5	5	5	0	500	100	1	0
A	Backlog Backlog	4	Planting	3	5	5	5	5	1,500	500	1	0
B	Stand Tending	1	Planning/surveys/presc.	55	45	45	55	45	7,500	136	1	0
B	Stand Tending	2	Spacing	35	30	35	40	35	17,500	500	1	0
A	Backlog Backlog	2	Site preparation	5	5	5	5	0	3,750	750	2	0
A	Backlog Backlog	6	Seed Purchase	5	5	5	5	0	1,500	300	2	0

B	Stand Tending	3 Pruning	20	10	10	10	10	10,000	500	2	0
	Totals		128	110	115	130	100	$42,250			

KAMLOOPS WOODLOT ASSOCIATION

Table A: Backlog Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	1
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	1
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	0	0	5	5	0	$0	$0	0

2	Site preparation	3	5	5	5	5	2,250	750	2
3	Site restoration road/land. rehab	0	5	0	0	2	0	0	0
4	Planting	5	3	5	5	5	2,500	500	1
5	Brushing	0	0	3	3	3	0	0	0
6	Seed purchase	5	3	5	5	5	1,500	300	2
	Totals	13	16	23	23	20	$6,250	$481	

Impeded areas

1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Seed purchase	0	0	0	0	0	0	0	0
	Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management
Unit Total

1 Planning/surveys/prescriptions	0	0	5	5	0	$0	$0	
2 Site preparation	3	5	5	5	5	2,250	750	
3 Site restoration road/land. rehab	0	5	0	0	2	0	0	
4 Planting	5	3	5	5	5	2,500	500	
5 Brushing	0	0	3	3	3	0	0	
6 Seed purchase	5	3	5	5	5	1,500	300	
7 Max. density spacing	0	0	0	0	0	0	0	
8 Pruning	0	0	0	0	0	0	0	
9 Studies	0	0	0	0	0	[redacted]	0	0
Totals	13	16	23	23	20	$6,250	$480	

KAMLOOPS WOODLOT ASSOCIATION

Table B: Stand Tending Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	20	20	20	20	$0	$0	0
2 Spacing	40	40	40	40	40	26,000	650	1
3 Pruning	11	10	10	10	10	12,200	1,109	2
4 Fertilizing	27	10	10	10	10	9,450	350	3
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	78	80	80	80	80	47650	$611	

KAMLOOPS WOODLOT ASSOCIATION
Table C: Forest Health Enhancement Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

KAMLOOPS WOODLOT ASSOCIATION
Table D: Forest Health Maintenance Activities
Prepared: August 11, 1999

Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

KAMLOOPS WOODLOT ASSOCIATION
Table E: Current Fire and Pest Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

KAMLOOPS WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

KAMLOOPS WOODLOT ASSOCIATION
Table G: Incremental Reforestation
Prepared: August 11, 1999

Fill planting

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	

Rehabilitation of Poorly Performing Stands

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	

Road, Landing, Hillslope and Riparian Reforestation

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	

Incremental Reforestation - Management Unit Total

	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
	0	0	0	0	0	0	$0	0

KAMLOOPS WOODLOT ASSOCIATION

Summary Table

Prepared: August 11, 1999

Table Totals	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	13	16	23	23	20	6,250	480	
Table B: Stand Tending Activities	78	80	80	80	80	47,650	611	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	91	96	103	103	100	53,900	1,091	
	Five-Year Plan Goals (ha)					**Annual Plan 2000/01**		

Table and category			Activity		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	1	Planning/surveys/presc.	0	0	5	5	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	5	0	0	2	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	3	3	3	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlo	Total	7	Studies	0	0	0	0	0	0	0	0	0

	g											
B	Stand Tending	1	Planning/surveys/presc.	0	20	20	20	20	0	0	0	0
B	Stand Tending	5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0

E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0
A	Backlog Legal	2	Site preparation	0	0	0	0	0	0	0	1	0
A	Backlog Legal	5	Seed Purchase	0	0	0	0	0	0	0	1	0
A	Backlog Backlog	4	Planting	5	3	5	5	5	2,500	500	1	0
B	Stand Tending	2	Spacing	40	40	40	40	40	26,000	650	1	0
A	Backlog Backlog	2	Site preparation	3	5	5	5	5	2,250	750	2	0
A	Backlog Backlog	6	Seed Purchase	5	3	5	5	5	1,500	300	2	0
B	Stand	3	Pruning	11	10	10	10	10	12,200	1,109	2	0

	Tending										
B	Stand Tending	4 Fertilizing	27	10	10	10	10	9,450	350	3	0
	Totals		91	96	103	103	100	$53,900			

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Table A: Backlog Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					**Annual Plan 2000/01**		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	

Backlog Reforestation

1	Planning/surveys/prescriptions	10	10	10	10	10	$1,000	$100	1
2	Site preparation	20	10	10	10	10	15,000	750	1
3	Site restoration road/land. rehab	0	0	10	0	4	0	0	0
4	Planting	0	20	10	10	10	0	0	0
5	Brushing	0	0	0	10	6	0	0	0
6	Seed purchase	20	10	10	10	10	6,000	300	2
	Totals	50	50	50	50	50	$22,000	$440	

Impeded areas

1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Seed purchase	0	0	0	0	0	0	0	0
	Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	10	10	10	10	10	$1,000	$100	
2	Site preparation	20	10	10	10	10	15,000	750	
3	Site restoration road/land. rehab	0	0	10	0	4	0	0	
4	Planting	0	20	10	10	10	0	0	
5	Brushing	0	0	0	10	6	0	0	
6	Seed purchase	20	10	10	10	10	6,000	300	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	50	50	50	50	50	$22,000	$440	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION
Table B: Stand Tending Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	65	60	60	60	60	$7,500	$115	1
2 Spacing	55	60	60	60	60	35,750	650	1
3 Pruning	10	5	5	5	5	10,000	1,000	2
4 Fertilizing	0	5	5	5	5	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	130	130	130	130	130	53250	$410	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Table C: Forest Health Enhancement Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Table D: Forest Health Maintenance Activities

Prepared: August 11, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Table E: Current Fire and Pest Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Table G: Incremental Reforestation

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Fill planting	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

SHUSWAP OKANAGAN (Vernon/Salmon Arm) WOODLOT ASSOCIATION

Summary Table

Prepared: August 11, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	50	50	50	50	50	22,000	440	
Table B: Stand Tending Activities	130	130	130	130	130	53,250	410	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	180	180	180	180	180	75,250	849	

					Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Table and category			**Activity**		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0

A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	10	0	4	0	0	0	0
A	Backlog	Backlog	4	Planting	0	20	10	10	10	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	10	6	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tendin		4	Fertilizing	0	5	5	5	5	0	0	0	0

g										
B Stand Tending	5 Studies	0	0	0	0	0	0	0	0	0
B Stand Tending	6 Other	0	0	0	0	0	0	0	0	0
C FH Enhancement	1 Site rehab	0	0	0	0	0	0	0	0	0
C FH Enhancement	2 Spacing	0	0	0	0	0	0	0	0	0
C FH Enhancement	3 Pruning	0	0	0	0	0	0	0	0	0
C FH Enhancement	4 Studies	0	0	0	0	0	0	0	0	0
C FH Enhancement	5 Others	0	0	0	0	0	0	0	0	0
D FH Maintenance	1 Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D FH Maintenance	2 Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D FH Maintenance	3 Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D FH Maintenance	4 MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D FH Maintenance	5 Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D FH Maintenance	6 Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D FH Maintenance	7 Studies (number)	0	0	0	0	0	0	0	0	0
D FH Maintenance	8 Other	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	1 Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	2 Site preparation	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	3 Planting	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	4 Brushing	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	5 Max. density spacing	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	6 Studies	0	0	0	0	0	0	0	0	0
E Current Fire/Pest	7 Ot	0	0	0	0	0	0	0	0	0

		her									
F	Habitat Supply	1 Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2 Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3 Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4 Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5 Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6 Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7 Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8 Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation		0	0	0	0	0	0	0	0	0
A	Backlo Backlog g	1 Planning/surveys/presc.	10	10	10	10	10	1,000	100	1	0
A	Backlo Backlog g	2 Site preparation	20	10	10	10	10	15,000	750	1	0
B	Stand Tendin g	1 Planning/surveys/presc.	65	60	60	60	60	7,500	115	1	0
B	Stand Tendin g	2 Spacing	55	60	60	60	60	35,750	650	1	0
A	Backlo Backlog g	6 Seed Purchase	20	10	10	10	10	6,000	300	2	0
B	Stand Tendin g	3 Pruning	10	5	5	5	5	10,000	1,000	2	0
	Totals		180	180	180	180	180	$75,250			

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table A: Backlog Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	0	5	5	5	5	$0	$0	0
2 Site preparation	0	5	5	5	5	0	0	0
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	0	5	5	5	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	0	5	5	5	5	0	0	0
Totals	0	15	20	20	20	$0	$0	
Impeded areas								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	0	5	5	5	5	$0	$0	
2	Site preparation	0	5	5	5	5	0	0	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	0	0	5	5	5	0	0	
5	Brushing	0	0	0	0	0	0	0	
6	Seed purchase	0	5	5	5	5	0	0	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	0	15	20	20	20	$0	$0	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table B: Stand Tending Activities
Prepared: August 11, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	40	40	40	40	40	$3,670	$92	1
2 Spacing	40	40	40	40	40	21,000	525	1
3 Pruning	0	0	0	0	0	0	0	0
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	80	80	80	80	80	24670	$308	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table C: Forest Health Enhancement Activities
Prepared: August 11, 1999

Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table D: Forest Health Maintenance Activities
Prepared: August 11, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table E: Current Fire and Pest Activities
Prepared: August 11, 1999

	Activities	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2	Site preparation	0	0	0	0	0	0	0	0
3	Planting	0	0	0	0	0	0	0	0
4	Brushing	0	0	0	0	0	0	0	0
5	Max. density spacing	0	0	0	0	0	0	0	0
6	Studies	0	0	0	0	0	0	0	0
7	Other	0	0	0	0	0	0	0	0
	Totals	$0	$0	$0	$0	$0	$0	$0	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION
Table G: Incremental Reforestation
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

SOUTH OKANAGAN (Penticton) WOODLOT ASSOCIATION

Summary Table

Prepared: August 11, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	0	15	20	20	20	0	0	
Table B: Stand Tending Activities	80	80	80	80	80	24,670	308	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	80	95	100	100	100	24,670	308	

Five-Year Plan Goals (ha) **Annual Plan 2000/01**

Table and category			Activity		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	1	Planning/surveys/presc.	0	5	5	5	5	0	0	0	0
A	Backlog	Backlog	2	Site preparation	0	5	5	5	5	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	4	Planting	0	0	5	5	5	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	6	Seed Purchase	0	5	5	5	5	0	0	0	0
A	Backlo	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0

	g									
A	Backlog Impeded	2 Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	3 Planting	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	4 Brushing	0	0	0	0	0	0	0	0	0
A	Backlog Impeded	5 Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog Total	7 Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	3 Pruning	0	0	0	0	0	0	0	0	0
B	Stand Tending	4 Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending	5 Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6 Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1 Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2 Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3 Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4 Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5 Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1 Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2 Aerial Surveys (hours	0	0	0	0	0	0	0	0	0

			flying)									
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0

B	Stand Tending	1	Planning/surveys/presc.	40	40	40	40	40	3,670	92	1	0
B	Stand Tending	2	Spacing	40	40	40	40	40	21,000	525	1	0
	Totals			80	95	100	100	100	$24,670			

MERRITT WOODLOT ASSOCIATION
Table A: Backlog Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	
Backlog Reforestation								
1 Planning/surveys/prescriptions	5	5	5	5	5	$1,000	$200	1
2 Site preparation	5	5	5	5	5	3,750	750	1
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	5	5	5	5	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	5	5	5	5	5	1,500	300	2
Totals	15	20	20	20	20	$6,250	$417	
Impeded areas								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management Unit Total

1	Planning/surveys/prescriptions	5	5	5	5	5	$1,000	$200	
2	Site preparation	5	5	5	5	5	3,750	750	
3	Site restoration road/land. rehab	0	0	0	0	0	0	0	
4	Planting	0	5	5	5	5	0	0	
5	Brushing	0	0	0	0	0	0	0	
6	Seed purchase	5	5	5	5	5	1,500	300	
7	Max. density spacing	0	0	0	0	0	0	0	
8	Pruning	0	0	0	0	0	0	0	
9	Studies	0	0	0	0	0	[redacted]	0	0
	Totals	15	20	20	20	20	$6,250	$416	

MERRITT WOODLOT ASSOCIATION
Table B: Stand Tending Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	25	30	30	30	30	$4,115	$165	1
2 Spacing	25	25	25	25	25	16,250	650	1
3 Pruning	0	5	5	5	5	0	0	0
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	50	60	60	60	60	20365	$407	

MERRITT WOODLOT ASSOCIATION
Table C: Forest Health Enhancement Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

MERRITT WOODLOT ASSOCIATION
Table D: Forest Health Maintenance Activities
Prepared: August 11, 1999

		Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

MERRITT WOODLOT ASSOCIATION
Table E: Current Fire and Pest Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

MERRITT WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

MERRITT WOODLOT ASSOCIATION
Table G: Incremental Reforestation
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

MERRITT WOODLOT ASSOCIATION

Summary
Table
Prepared: August 11, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	15	20	20	20	20	6,250	416	
Table B: Stand Tending Activities	50	60	60	60	60	20,365	407	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	65	80	80	80	80	26,615	823	

Five-Year Plan Goals (ha)					Annual Plan 2000/01			
2000/	2001/	2002/	2003/	2004/	Funding	Unit Cost	Man. Unit	Regional

Table and category			Activity		2001	2002	2003	2004	2005	($000)	($)	Priority	Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	4	Planting	0	5	5	5	5	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0

A	Backlog	Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		3	Pruning	0	5	5	5	5	0	0	0	0
B	Stand Tending		4	Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending		5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending		6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement		1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement		2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement		3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement		4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement		5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance		1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance		5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0

D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0
A	Backlog Backlog	1	Planning/surveys/presc.	5	5	5	5	5	1,000	200	1	0
A	Backlog Backlog	2	Site preparation	5	5	5	5	5	3,750	750	1	0
B	Stand Tending	1	Planning/surveys/presc.	25	30	30	30	30	4,115	165	1	0
B	Stand	2	Spacing	25	25	25	25	25	16,250	650	1	0

	Tending											
A	Backlog	Backlog	6 Seed Purchase	5	5	5	5	5	1,500	300	2	0
	Totals			65	80	80	80	80	$26,615			

LILLOOET WOODLOT ASSOCIATION
Table A: Backlog Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Legal Obligations	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
6 Max. density spacing	0	0	0	0	0	0	0	0
7 Pruning	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	0	$0	

Backlog Reforestation

1 Planning/surveys/prescriptions	3	3	2	2	0	$500	$167	2
2 Site preparation	5	3	3	2	2	3,750	750	1
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	0
4 Planting	0	5	3	3	2	0	0	0
5 Brushing	0	0	0	0	0	0	0	0
6 Seed purchase	5	3	3	2	2	1,500	300	1
Totals	13	14	11	9	6	$5,750	$442	

Impeded areas

1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Seed purchase	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

Backlog Activities - Management
Unit Total

1 Planning/surveys/prescriptions	3	3	2	2	0	$500	$167	
2 Site preparation	5	3	3	2	2	3,750	750	
3 Site restoration road/land. rehab	0	0	0	0	0	0	0	
4 Planting	0	5	3	3	2	0	0	
5 Brushing	0	0	0	0	0	0	0	
6 Seed purchase	5	3	3	2	2	1,500	300	
7 Max. density spacing	0	0	0	0	0	0	0	
8 Pruning	0	0	0	0	0	0	0	
9 Studies	0	0	0	0	0	[redacted]	0	0
Totals	13	14	11	9	6	$5,750	$442	

LILLOOET WOODLOT ASSOCIATION
Table B: Stand Tending Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	20	22	22	24	$0	$0	1
2 Spacing	20	15	17	17	19	11,325	566	1
3 Pruning	0	5	5	5	5	0	0	0
4 Fertilizing	0	0	0	0	0	0	0	0
5 Studies	0	0	0	0	0	0	0	0
6 Other	0	0	0	0	0	0	0	0
Totals	20	40	44	44	48	11325	$566	

LILLOOET WOODLOT ASSOCIATION
Table C: Forest Health Enhancement Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Site rehab	0	0	0	0	0	$0	$0	0
2 Spacing	0	0	0	0	0	0	0	0
3 Pruning	0	0	0	0	0	0	0	0
4 Studies	0	0	0	0	0	0	0	0
5 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

LILLOOET WOODLOT ASSOCIATION

Table D: Forest Health Maintenance Activities

Prepared: August 11, 1999

Activities	Units	Five-year Plan Goals (ha)					Annual Plan 2000/01		
		2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Ground Surveys	ha	0	0	0	0	0	$0	$0	0
2 Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3 Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4 MSMA treatment	trees	0	0	0	0	0	0	0	0
5 Pheromone baiting	trees	0	0	0	0	0	0	0	0
6 Defoliator spraying	ha	0	0	0	0	0	0	0	0
7 Studies	number	0	0	0	0	0	0	0	0
8 Other		0	0	0	0	0	0	0	0
Totals		0	0	0	0	0	$0	$0	

LILLOOET WOODLOT ASSOCIATION

Table E: Current Fire and Pest Activities

Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
Activities	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Max. density spacing	0	0	0	0	0	0	0	0
6 Studies	0	0	0	0	0	0	0	0
7 Other	0	0	0	0	0	0	0	0
Totals	$0	$0	$0	$0	$0	$0	$0	

LILLOOET WOODLOT ASSOCIATION
Table F: Habitat Supply Activities
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	0
2 Site preparation	0	0	0	0	0	0	0	0
3 Planting	0	0	0	0	0	0	0	0
4 Brushing	0	0	0	0	0	0	0	0
5 Spacing	0	0	0	0	0	0	0	0
6 Pruning	0	0	0	0	0	0	0	0
7 Studies	0	0	0	0	0	0	0	0
8 Others	0	0	0	0	0	0	0	0
Totals	0	0	0	0	0	$0	$0	

LILLOOET WOODLOT ASSOCIATION
Table G: Incremental Reforestation
Prepared: August 11, 1999

	Five-year Plan Goals (ha)					Annual Plan 2000/01		
	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Fill planting								
1 Planning/surveys/prescriptions	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	0	$0	
Rehabilitation of Poorly Performing Stands								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Road, Landing, Hillslope and Riparian Reforestation								
1	0	0	0	0	0	$0	$0	
2	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	
Totals	0	0	0	0	0	$0	$0	
Incremental Reforestation - Management Unit Total	0	0	0	0	0	0	$0	0

LILLOOET WOODLOT ASSOCIATION

Summary
Table
Prepared: August 11, 1999

	Five-Year Plan Goals (ha)					Annual Plan 2000/01		
Table Totals	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
Table A: Backlog Activities	13	14	11	9	6	5,750	442	
Table B: Stand Tending Activities	20	40	44	44	48	11,325	566	
Table C: Forest Health Enhancement Activities	0	0	0	0	0	0	0	
Table D: Forest Health Maintenance Activities	0	0	0	0	0	0	0	
Table E: Current Fire and Pest Activities	0	0	0	0	0	0	0	
Table F: Habitat Supply Activities	0	0	0	0	0	0	0	
Table G: Incremental Reforestation	0	0	0	0	0	0	0	
Totals of all tables	33	54	55	53	54	17,075	1,008	

Five-Year Plan Goals (ha)					Annual Plan 2000/01			
2000/	2001/	2002/	2003/	2004/	Funding	Unit Cost	Man. Unit	Regional

Table and category			Activity		2001	2002	2003	2004	2005	($000)	($)	Priority	Priority
A	Backlog	Legal	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	4	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	6	Max. density spacing	0	0	0	0	0	0	0	0	0
A	Backlog	Legal	7	Pruning	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	3	Site Restoration Road/land. rehab	0	0	0	0	0	0	0	0	0
A	Backlog	Backlog	4	Planting	0	5	3	3	2	0	0	0	0
A	Backlog	Backlog	5	Brushing	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	2	Site preparation	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	3	Planting	0	0	0	0	0	0	0	0	0
A	Backlog	Impeded	4	Brushing	0	0	0	0	0	0	0	0	0

A	Backlog Impeded	5	Seed Purchase	0	0	0	0	0	0	0	0	0
A	Backlog Total	7	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	3	Pruning	0	5	5	5	5	0	0	0	0
B	Stand Tending	4	Fertilizing	0	0	0	0	0	0	0	0	0
B	Stand Tending	5	Studies	0	0	0	0	0	0	0	0	0
B	Stand Tending	6	Other	0	0	0	0	0	0	0	0	0
C	FH Enhancement	1	Site rehab	0	0	0	0	0	0	0	0	0
C	FH Enhancement	2	Spacing	0	0	0	0	0	0	0	0	0
C	FH Enhancement	3	Pruning	0	0	0	0	0	0	0	0	0
C	FH Enhancement	4	Studies	0	0	0	0	0	0	0	0	0
C	FH Enhancement	5	Others	0	0	0	0	0	0	0	0	0
D	FH Maintenance	1	Ground Surveys (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	2	Aerial Surveys (hours flying)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	3	Fall & burn treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	4	MSMA treatment (trees)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	5	Pheromone baiting (trees)	0	0	0	0	0	0	0	0	0

D	FH Maintenance	6	Defoliator spraying (ha)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	7	Studies (number)	0	0	0	0	0	0	0	0	0
D	FH Maintenance	8	Other	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	2	Site preparation	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	3	Planting	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	4	Brushing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	5	Max. density spacing	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	6	Studies	0	0	0	0	0	0	0	0	0
E	Current Fire/Pest	7	Other	0	0	0	0	0	0	0	0	0
F	Habitat Supply	1	Planning/surveys/presc.	0	0	0	0	0	0	0	0	0
F	Habitat Supply	2	Site preparation	0	0	0	0	0	0	0	0	0
F	Habitat Supply	3	Planting	0	0	0	0	0	0	0	0	0
F	Habitat Supply	4	Brushing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	5	Spacing	0	0	0	0	0	0	0	0	0
F	Habitat Supply	6	Pruning	0	0	0	0	0	0	0	0	0
F	Habitat Supply	7	Studies	0	0	0	0	0	0	0	0	0
F	Habitat Supply	8	Others	0	0	0	0	0	0	0	0	0
G	Incremental Reforestation			0	0	0	0	0	0	0	0	0
A	Backlog Backlog	2	Site preparation	5	3	3	2	2	3,750	750	1	0
A	Backlog Backlog	6	Seed Purchase	5	3	3	2	2	1,500	300	1	0
B	Stand Tending	1	Planning/surveys/presc.	0	20	22	22	24	0	0	1	0
B	Stand	2	Spacing	20	15	17	17	19	11,325	566	1	0

	Tending												
A	Backlog	Backlog	1	Planning/surveys/presc.	3	3	2	2	0	500	167	2	0
	Totals				33	54	55	53	54	$17,075			

Habitat Supply & - Biodiversity Objectives
Kamloops Forest Region

In the absence of management unit specific strategies, habitat and biodiversity issues have been summarized for the Kamloops Region as a whole. Table F outlines five-year plan goals, priorities and funding needs for the year 2000/01. All activities are included in the regional Table F except one study in TFL 49.

Opportunities to mitigate habitat supply problems or enhance habitat quality in the Kamloops Forest Region include but are not limited to the following:

Study Natural Disturbance Type 4 issues for TSR, LU and Grassland Management reasons

- locate areas within ungulate winter range where layer 1 and 2 thinning and/or burning is important to winter range function;
- locate areas within weakly labelled (as to mature /old layers) stands that could be modified to enhance old growth (OG) characteristics, thereby meeting OGMA objectives currently in shortfall in NDT4b;
- field inspect backlog xeric and sub-xeric stands and create new stocking standards appropriate to the multiple use objectives of these stands;
- locate stands within White-headed woodpecker (WHW) range that could be modified to enhance habitat & OG characteristics, thereby meeting WHW habitat needs;
- locate stands where defoliators are a problem and canopy thinning will improve control by ants thus limiting damage to Winter Range (WR), OG and other habitat features;
- locate areas of forest encroachment into former grassland-dominated areas and determine the benefits and feasibility of brushing or underburning to restore that condition. Livestock use must be minimized for up to 2 years to maximize biodiversity benefits. Requires base mapping of grassland limits.

Mitigate impacts of Sustainable Harvest activities

- locate and flag out a percentage of thickets to be left untreated during thinning so as to continue the supply of thermal shelter and small mammal/bird security habitat;
- during thinning and brushing, leave untreated roadside strips to give visual buffering to wildlife along any road open to vehicular traffic;
- create standards for lower tree stocking and/or clumped stocking on grizzly spring and fall range and on caribou late winter habitat to perpetuate food supplies including berries, forbs and arboreal lichen;
- create standards for varying stocking within moose winter range to leave minor (hectare or less) patches of <200sph. This creates opportunity for early seral understorey to continue for a longer period supplying wildlife forage and natural small opening attributes for other user species;
- create standards for accepting higher proportions of birch in mixed conifer-birch stands where root rot is an issue, with birch as a habitat provider and a commensal facilitator. Other deciduous trees may be suitable substitutes for birch;

- review the ecosystem and habitat supply impact of western larch planting off-site into dry belt;
- create guidelines to limit stumping to areas with a high percentage root rot problems and to slopes less than 40% to reduce shrub loss (important to wildlife) and reduce sediment transport off-site to fish or water supply streams;
- space layers 1, 2, and/or 3 in wet belt deer winter range to improve forage supply under snow retention canopy;
- brush species may be lowered in height (70:30 cut:leave) to encourage re-sprouting of benefit to wildlife;
- review cost/benefit to all forest resources of SH activities and set threshold rejection costs/hectare;
- ensure access deactivation and closure is budgeted as part of SH activities in order to protect ungulate ranges, red/blue habitats and other higher level plan mapped special habitats;
- create guidelines to improve tree species mix when fill-planting on backlog or NSR areas so as to restore that element of biodiversity and reduce monocultures and/or species exclusion;
- identify pruning sites where understorey browse response is maximized and encourage similar projects in similar sites for the benefit of browsing wildlife.

LRMP Caribou Habitat Management Activities

- clear parts of near monoculture balsam residual (harvested) stands in late winter caribou habitat and re-establish spruce so that long term arboreal lichen supplies can re-grow. Interim retention of lichen bearing balsam is required;
- space caribou corridors to both retain canopy interception and to improve understorey visibility.

LRMP Riparian Management Activities

- replant S4, S5 and S6 Riparian Management Zones to re-stabilize upstream sections of watercourses and improve downstream fish habitat and water supply. Cover replanted should include a deciduous tree component. This also aids WRP deactivation and restoration;
- locate and remove non-native plants from ungulate ranges and red/blue listed habitats to allow the return of native plant communities. Areas may have to be protected from livestock use for a period of several years.

Identified Wildlife Management Strategy

- locate areas of spotted owl habitat that could benefit from stand manipulation to create nesting and feeding habitat;
- improve stand spacing around known Goshawk nest sites to improve fledgling habitat;
- review post harvest treatments that created better huckleberry forage for grizzly bears and create a series of strategies and identify applicable forest sites;
- species dealt with in previous sections include grizzly bear and White-headed woodpecker

Priority by Locations

Studies, prescriptions, brushing and site preparation

- mapped mule deer WR, IDFx, IDFdm, IDFmw particularly for WR, IWMS and HLP red/blue listed species. Stands with douglas fir and/or ponderosa pine present;
- existing or potential OGMA sites in NDT4;
- mapped Caribou late winter range;
- mapped spotted owl areas;
- White-headed woodpecker range;
- moose range;
- Bighorn sheep range;
- Grizzly bear range as per population unit mapping and suitable biogeoclimatic zones (as referenced in *Guidelines for Integrating Grizzly Bear Forage Needs and Silviculture in the Interior Cedar Hemlock (ICH) Zone of the Kamloops TSA* and similar documents for the Okanagan and Lillooet LRMPs, and Kootenay CORE plan implementation;
- root rot sites within IDFdk2, IDFmw, MSdm, ICHmw.

Pruning

- mapped moose winter range with preferred browse shrubs present;
- moose reproductive range with preferred browse shrubs present.

Planting

- S4, S5 & S6 on steeper slopes upstream of fish or water users

Other Activities

- burning in IDFx or PPx to restore grassland habitat features;
- funding for burning plans and implementation in NDT4 sites selected;
- completion of TFL 49 stand density/habitat study (Tom Sullivan).

KAMLOOPS FOREST REGION -- REGIONAL ALLOCATION

Table B: Forest Health Maintenance Activities

September 28, 1999

			Five-year Plan Goals (ha)					Annual Plan 2000/01		
	Activities	**Units**	2000/ 2001	2001/ 2002	2002/ 2003	2003/ 2004	2004/ 2005	Funding ($000)	Unit Cost ($)	Priority
1	Ground Surveys	ha	100000	100000	200000	200000	200000	$200	$0	1
2	Aerial Surveys	hours of flying time	0	0	0	0	0	0	0	0
3	Fall and burn treatment	trees	0	0	0	0	0	0	0	0
4	MSMA treatment	trees	0	0	0	0	0	0	0	0
5	Pheromone baiting	trees	0	0	0	0	0	0	0	0
6	Defoliator spraying	ha	0	0	0	0	0	0	0	0
7	Studies	number	3	3	4	4	4	150	50	3
8	Other		0	0	0	0	0	0	0	0
	Totals		100003	100003	200004	200004	200004	$350	$0	

Aerial surveys are included in the SSFM objective ($80,000)

Defoliator spraying is in Table C ($187,500)

Regional Forest Health Summary

					Five-Year Plan Goals (ha)					Annual Plan 2000/01			
Management Unit	**Table and category**			**Activity**	2000/2001	2001/2002	2002/2003	2003/2004	2004/2005	Funding ($000)	Unit Cost ($)	Man. Unit Priority	Regional Priority
Kamloops Forest Region -- Regional Allocation	C	FH Enhancement	5	Others	7500	8000	15000	15000	20000	187.5	25	1	0
Kamloops Forest Region -- Regional Allocation	D	FH Maintenance	1	Ground Surveys (ha)	100000	100000	200000	200000	200000	200	0.002	1	0
Priority 1 summary										**387.5**			
Kamloops Forest Region -- Regional Allocation	D	FH Maintenance	7	Studies (number)	3	3	4	4	4	150	50	3	0
Priority 3 summary										**150**			
TOTAL										**537.5**			

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THOMPSON OKANAGAN REGION

RESOURCE MANAGEMENT PLAN

2000-01

Volume III

British Columbia
Ministry of Forests
Ministry of Environment, Lands & Parks

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Enhancing Environmental Values

(Jim Standen – Forest Renewal Coordinator, Ministry of Environment, Lands and Parks)

"The world we have created today, as a result of our thinking thus far, has problems which cannot be solved by thinking the way we thought when we created them."

-Albert Einstein

This plan represents the combined efforts of many people and organizations but in particular, the members of the Thompson Okanagan Watershed Committee (TOWC). The TOWC is a multi-user technical committee comprised of practitioners of "watershed restoration" who are dedicated to the concept holistic restoration of watersheds. Committee members share the goal of guiding the restoration of watershed values through a coordinated, cooperative approach.

The Committee is working towards development of a comprehensive restoration plan, which defines the nature and scope of regional restoration needs and the relative priority of regional watersheds, while also promoting and facilitating discussion and exchange of ideas relating to techniques and procedures applicable to watersheds in the southern interior. The formation of the committee and the development of these priorities was driven in part by the new direction of the FRBC Enhancing Environmental Values strategic objective to employ well planned holistic restoration techniques that recognize the linkages between upslope and instream functions of watersheds in order to improve fish habitat and domestic water resources..

This plan, which was founded on the prioritization work of the committee, presents a subset of the regional priority watersheds which, if funded for restoration by Forest Renewal BC, would contribute to attaining the defined performance measures of the EEV strategic objective. By relying on the work of the committee, Forest Renewal BC has demonstrated a strong commitment to working with the member groups to address a common set of watershed restoration priorities. Through a concerted and coordinated addressing of watershed issues, which have been created by our uses of the land, we improve our chances for success.

This plan is very much a "living" document. The results and recommendations are only as good as the information that feed them and this plan utilized the best information accessible within the very limited time frames provided. To the extent that the current status of our natural resources cannot be fully defined and quantified within the limits of current staffing and funding, this plan will never be truly completed. Additional technical knowledge, regardless of source, is welcomed and will be fed into the prioritization that forms the foundation of the plan. Through the revisiting of the plan annually, we will seek to strengthen this foundation with enhanced information.

Introduction

Established on June 2, 1994, Forest Renewal British Columbia (FRBC), a crown corporation, is charged with the mandate *"to plan and implement a program of investments to renew the forest economy of British Columbia by enhancing the productive capacity and environmental values of forest lands, and by creating jobs, providing training for forest workers, and strengthening local communities that depend on the forest industry."* [1]

Funded through increases in stumpage and royalty revenue, Forest Renewal BC has, over the period 1994-1999, invested more than $1.3 billion into the land-based programs (Enhanced Forestry, Watershed Restoration, Operational Inventory, and Forest Recreation). Out of this investment, $302 million was invested in Watershed Restoration, a program delivered with the assistance of the Ministry of Environment and the Ministry of Forests, acting in their legislated roles as stewards for the land base.

In 1997, Forest Renewal BC initiated significant changes to the Landbased Programs such as the initiation of regional advisory forums[2], the introduction of the allocation based New Land Based Delivery Model, and the recent move by Forest Renewal to a strategic objective based organizational structure. All these changes represent a move away from a proposal driven model towards a more strategic, planned approach to identification and implementation of FRBC landbased investments.

In late 1997 Forest Renewal BC initiated a review of the Watershed Restoration Program. Conducted by KPMG , the purpose was to inform the Forest Renewal BC Board on how to maximize the benefits from WRP investments[3]. This review, along with other considerations, led to a series of Board decisions that are reflected in the Strategic Objective #3 – Enhancing Environmental Values.

The Ministry of Environment and the Ministry of Forests (the Ministries) developed the following plan in satisfaction of their contractual obligation to Forest Renewal BC. It represents a prioritization of regional watersheds based on the stated FRBC objective of restoring fish and domestic water values.

Purpose

Forest Renewal is in the process of shifting its investment planning to a goal and performance-driven process based on a clear vision and strategic objectives, performance measures, targets, evaluation and continuous improvement. Forest Renewal BC therefore selects its land based program investments based on:

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[1] Forest Renewal BC, Landbased Handbook 1997/98. Page iv.

[2] Thompson-Okanagan, Regional Plan 1998-2005

[3] KPMG Consulting, Review of the Management of the Forest Renewal BC Watershed Restoration Program 1998.

(i) their expected contribution to achievement of Strategic Objectives;
(ii) their contribution to meeting Corporate Commitments; and
(iii) In accordance with corporate objectives and planning principles.

In 1999/00, the shift to strategically driven planning began by phasing-out funding for activities that were not core to the corporation's strategic plan. In 2000/01, this process will be accelerated by shifting the bulk of investment funds to activities that generate the highest possible returns as defined through assessments of resource benefits and socio-economic implications. In the 2001/02 planning year, all investments will be targeted at maximizing achievement of strategic objective performance targets.

This plan is intended to guide proponents on regional project opportunities to ensure that the maximum resource values are derived from Forest Renewal BC investments while achieving the stated strategic objectives, performance measures, and targets for Enhancing Environmental Values

This document is based solely upon technical considerations and gap analyses. It identifies to Forest Renewal BC and any potential proponents and/or partners, what opportunities exist on the land base in terms of candidate watersheds for restoration. It does not give specific consideration to job creation, partnerships (present or potential), worker training or community stability. It is a technical evaluation designed to set "goalposts" within which projects may be selected which meet Forest Renewal BC economic and social objectives.

Targets and Performance Measures for Enhancing Environmental Values[4]

Forest Renewal BC will invest in restoring forest watersheds and in promoting environmental stewardship and strong environmental values in B.C.'s forests.

Key Target

Over the next five years, Forest Renewal BC will work with its partners to complete the restoration of 20 per cent of the highest-priority watersheds that have been damaged or seriously threatened by past forest development activities.

Performance Measures

- In 1999/2000, the highest-priority watersheds in each region will be identified on the basis of fisheries and aquatic resource values, and the likelihood of restoration success.

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[4] Taken from Forest Renewal BC Strategic Plan 1999-2003

- There will be cleaner drinking water in more than 20 community watersheds. **(5 community watersheds in Thompson Okanagan)**
- There will be an increase in the quality and quantity of fish habitat in more than 120 watersheds **(12 watersheds in Thompson Okanagan).**
- The number of rare or endangered forest wildlife and plant communities that are protected will increase, through private land conservation **(Not applied to Thompson Okanagan).**
- The number of community groups participating in the Watershed Restoration Program will be maintained or increased.
- Surveys will show that new knowledge and tools for watershed restoration and management are being developed and used.

To be selected for FRBC funding an activity must contribute to the achievement of the EEV Strategic Objective. The extent to which it contributes to the Strategic Objectives and Corporate Commitments will determine its priority. The Corporate Commitments are Regional Equity, First Nations Participation, Stakeholder Involvement and Employment Creation.

Summary of LRMPs and other relevant resource management issues

Thompson Okanagan Regional Plan 1998-2005.

Developed in 1997 and released at the Regional Advisory Forum (June 8/9, 1998) the Thompson Okanagan strategic plan outlined five (5) *Key Issues* facing the region:

- concern over future reductions in wood supply
- **need to maintain ecosystem integrity**[5]
- lack of involvement by First Nations in the forest sector
- need to diversify forest dependent communities; and
- concern over job loss and the need for forest workers to acquire new skills

The Plan goes on to state that "To address concerns regarding forest and environmental health, Forest Renewal BC will need to invest in watershed restoration along with resource inventory and research activities aimed at increasing overall knowledge and understanding about forest ecosystems."

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[5] bolded items highlight Key Issues and objectives which are of direct relevance to the development of this Resource Plan

The Thompson Okanagan Regional Plan also contains the following *Objectives* which are directly relevant to establishing priorities under the Enhancing Environmental Values strategic objective:

- undertake research to support forest planning and operations;
- implement relevant strategies in Land and Resource Management Plans (LRMPs);
- increase the level of first nations involvement in the forest sector;
- undertake restoration work on high priority watersheds;

The Plan goes on further to define *Goals* and *Action Plans*. Within the Environment activity area there are six (6) goals:

- increased public stewardship of the environment
- ecosystem-based management of the forest landbase
- clean air and water and healthy ecosystems and watersheds
- reduced impacts from forestry on wildlife and other forest resources
- improved recreational opportunities and
- completed inventories of important environmental resources

The following table outlines the relevant Action Plan for the Enhancing Environment Values (EEV) strategic objectives:

Objective	Actions	Intended Results
Undertake restoration work on high priority watersheds within five years	• define watershed boundaries • set priorities for watershed restoration • undertake detailed assessment and restoration work	Initial restoration work on damaged watersheds and substantial restoration of highest priority watersheds.

The Regional Plan relies upon terms such as "priority" and "important" without providing any context for the evaluation of what is a priority. The subsequent release of the FRBC Strategic Plan and the RMP Planning Guidelines provided further guidance as to the definition of priority although at the time of writing, the process for application of this plan to the investment decision making process was still unclear. For these reasons this plan is focused on what investment opportunities exist as defined by fish and domestic water values as defined by the current FRBC Strategic Objective.

Higher Level Plans

Within the Southern Interior region Land Use Planning has been a high priority activity for several years. Through the Thompson Okanagan Regional Plan, FRBC stakeholders have voiced the need to "implement relevant strategies in Land and Resource Management Plans".

The Land and Resource Management Plan (LRMP) process, the successor to the Commission on Resources and Environment planning, is at various stages in 3 of the 4 Timber Supply Areas (TSA) which make up the Thompson Okanagan FRBC Region. Covering Kamloops and Clearwater Forest Districts, the Kamloops LRMP was signed off by cabinet in July 1995 and includes recommendations on priority watershed restoration needs. . The Lillooet and Okanagan Timber Supply Areas are nearing the completion of consensus documents in the process of negotiating Land and Resource Management Plans, thus creating further higher level direction which must be considered in the development of investment priorities.

Kamloops LRMP (Kamloops and Clearwater Districts)[6]

The Kamloops LRMP is a Cabinet approved plan which was prepared based upon a Recommendations Package developed by the Kamloops LRMP Team. The plan forms a part of the BC Land Use Strategy and directs the management of all Crown land in the plan area for a 10 year period.

The Kamloops LRMP identifies "Resource Management Zones" within the plan area that represent distinct resource values or areas where specific resource management strategies will be applied. These objectives and strategies apply to all agencies, resources and activities, and are the fundamental building blocks of the plan.

The LRMP for the Kamloops TSA outlines in detail the management of resources to meet the objectives of the associated Management Zones. These objectives must be considered when developing investment options for Forest Renewal BC for their direction will generate certain specific information and restoration needs as a part of the LRMP implementation. More specific to the EEV strategic objective, the LRMP lists priorities for Watershed Assessment/ Restoration which were considered during the development of this plan. These are:

Watershed Restoration Program

- undertake watershed assessment of Fage Creek to address domestic water issues
- undertake watershed assessment of Finn Creek to address salmon issues
- undertake watershed assessment of Gold Creek to address fisheries issues
- undertake watershed assessment of Hiuihill Creek to address fisheries issues
- undertake watershed assessment of Scotty Creek to address domestic water issues
- undertake watershed assessment of Raft River to address fisheries issues
- undertake watershed assessment of Upper Adams River to address fisheries issues
- undertake watershed assessment of Barriere River to address fisheries and domestic water issues
- undertake watershed assessment of Otter Creek to address fisheries issues
- undertake watershed assessment of Bonaparte River to address fisheries, domestic and irrigation water issues

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[6] Kamloops Land and Resources Management Plan, July, 1995.

- undertake watershed assessment of Deadman River to address fisheries, domestic and irrigation water issues

The Kamloops LRMP Monitoring Framework – Final Draft June 1999, details at a project level, the activities required to be implemented to satisfy the LRMPs stated objectives and strategies. Included in this document is a project entitled Watershed Management where watershed management, defined as project, includes watershed assessments and rehabilitation (as required) for all identified watersheds in Appendix 1 and all community watersheds as defined and designated in the Forest Practices Code of BC Act. BC Environment will work with BC Forest Service to oversee watershed assessments and to determine which watersheds require rehabilitation. Public notification will be required prior to undertaking rehabilitation

Specific relevant strategies include:

- Identify degraded stream habitat for anadromous fish as part of watershed assessment process
- Restore degraded stream habitat as required
- Undertake watershed rehabilitation
- Maintain and enhance steelhead stocks
- Restore degraded stream habitat
- Conduct community watershed assessments & rehabilitate negatively impacted watersheds
- Ensure two-way communication from LRMP to local level planning, & reduce duplication of effort.
- Ensure local level plans are consistent with LRMP
- Apply LRMP priority list for local areas of planning.

Okanagan/Shuswap LRMP (Salmon Arm, Vernon and Penticton Districts)[7]

Although still under development, the Okanagan Shuswap LRMP has made significant progress and is nearing consensus. From the rolling draft and other and the unfinished portions of the various sub-committees work, it can be concluded that there will be significant direction forthcoming from the plan that will provide guidance to FRBC in its EEV investment priorities.

Direction specific to watershed restoration include:

1) Restore depressed salmon and freshwater fish populations to the capability of the system.
2) Restore salmon and freshwater fish habitat where it is not functioning at, or near, natural capacity. Identify fish habitats that would benefit from enhancement works. Develop and Implement site-specific habitat enhancement projects to restore riparian areas and instream fish habitats in watersheds impacted by past activities. Generally speaking, the goal is to increase all habitats. In situations where there are two fish species with different habitat requirements in the same system, the fish agencies will

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[7] Okanagan-Shuswap LRMP Rolling Draft, dated June 16, 1998

rationalize if this needs to be done at the expense of one species over the other, e.g. salmon vs. rainbow trout

3) Inventory and identify environmentally sensitive and critical fish habitats
4) Restore channel stability in streams where assessments (e.g., IWAP) indicate a concern, or where there are known problems.
    - Applies to both Crown and private land.
    - It is intended that this would apply to private land through voluntary stewardship agreements, in a cooperative manner with private land owners, etc.
    - Rehabilitation of stream channels should be considered in a watershed context.
    - Accelerate natural recovery (see glossary for definition).
    - Identify stream channels with stability concerns, and the cause of channel disturbances.
    - Develop and implement site specific channel stability restoration measures to accelerate natural recovery processes.
    - Restoration measures include hill slope stabilization replanting riparian areas, livestock fencing, replacement of large woody debris (LWD), rehabilitation of off channel habitat, and bank stabilization. Design projects for ecological restoration - i.e., returning the channel as much as possible to pre-disturbance conditions and functions.
    - Determine the cause of channel disturbances, and ensure that it has been rehabilitated (hill slope impacts) before habitat restoration work is implemented.
    - Restoration should aim to return “aggrading” and “degrading” conditions to the stable condition.
    - To develop and implement restoration measures to enhance fish populations through the Watershed Restoration Program, the Fish Renewal BC program, and other similar programs.
5) Emphasis on management of temperature sensitive streams
6) Restore the structural and functional integrity of riparian areas on private lands.
    - To restore the integrity of riparian areas through the Watershed Restoration Program, the Fish Renewal BC program, and other similar programs.
    - It is intended that this would apply to private land through voluntary stewardship agreements, in a cooperative manner with private land owners, etc.
7) Rehabilitate and stabilize streambanks that have been impacted by urban development, and resource development activities such as agriculture, timber harvesting, mining, etc.
8) All levels of government, local licensed resource users, and/or the public groups are encouraged to develop and implement rehabilitation plans where needed. Bioengineering techniques should be used to stabilize stream banks rather than rip rap.
9) Use IWAP (Interior Watershed Assessment Process) to assess impacts from past resource development activities, to guide future resource development and remedial and/or restoration activities in watersheds and/or sub-drainages.
    - Intent is that IWAP recommendations will provide direction for remedial and/or restoration activities under the WRP (Watershed Restoration Program).

- It is intended that high value fish streams are to be given priority for assessment. This will be balanced with risk factors to determine an overall priority for assessment.

10) Through stewardship programs and agreements, the Grazing Enhancement Fund (GEF), the Watershed Restoration Program, or other funding sources, rehabilitate and stabilize stream banks that have been impacted by urban development, and resource development activities such as agriculture, timber harvesting, mining, etc.
11) Upon completion of an assessment, implement procedures to rehabilitate negatively impacted watersheds on priority basis.
12) Reduce physical access (roads, trails, etc.) within community watersheds to the lowest practicable/practical level to minimize impacts on water quality
13) Minimize, where practical, access to and crossing of streams
14) Conduct watershed assessments for each community watershed on a prioritized basis within 5 years, develop plans to implement assessment recommendations and monitor results.
15) As much as practicable, minimize potentially negative impacts of road development and use and off road use on the environment and other social values.
16) As much as practicable, avoid use and development of roads and other developments on sensitive ecosystems and during periods that are sensitive to wildlife.
17) Subject to public consultation, non-status roads should be deactivated or rehabilitated, as appropriate, with due consideration for:
    - anticipated level and type of use
    - values
    - safety risk
    - environmental risk

While these recommendations are still draft and have not been fully debated and accepted by the LRMP table, they indicate the general direction of discussion and do provide a measure of direction as to what activities are supported and encouraged by the stakeholders involved.

Lillooet LRMP (Lillooet District)[8]

Still under development, it is also expected that many relevant recommendations will flow from the Lillooet Land and Resource Management Plan which will be similar to those coming from the Okanagan/Shuswap LRMP including:

1) Identify spawning areas within S4 fish-bearing streams, and assess for enhancement potential.
2) Maintain or enhance the structural and functional integrity of riparian areas along small non-fish bearing (S5 and S6) streams.
3) Apply measures such as livestock fencing, revegetation and bank stabilization using bioengineering techniques to restore pre-disturbance conditions within degraded riparian zones of S5 and S6 streams.

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[8] Whiting, Dave, Senior Planner. Min. of Environment, pers. comm

4) Promote riparian protection and restoration on private lands and for activities that are not covered by FPC.
5) To reduce stream temperatures within the plan area to preference levels for salmon, trout and char and reduce mortality levels.
6) Examine available information on fish distribution, high stream temperatures and fish mortality and where necessary, collect additional information on stream temperatures (particularly in upland areas.)
7) Identify all fish bearing streams and their direct tributaries and classify accordingly.
8) Determine methods to provide shade on identified fish bearing streams and their direct tributaries and encourage the adoption of those methods where necessary.
9) Evaluate the presence and/or effectiveness of shade trees on small fish bearing (S4) streams. Where shade is inadequate, take measures (e.g., planting trees in riparian areas) to improve shade on those systems.
10) Improve the management of fisheries resources and activities that affect fish habitat through watershed level planning, protection and restoration.
11) Completion of watershed assessments and management plans.
12) List of watersheds requiring further planning, assessments and list of restoration priorities.
13) Prioritize fish bearing watersheds for more detailed planning (e.g., for fish and land/water interactions, species at risk, water quality/quantity issues).
14) Develop watershed-specific management plans in the priority watersheds identified on map.
15) Prioritize fish bearing watersheds for watershed assessments (e.g., IWAPs) based on existing and potential problems (e.g., terrain stability, sedimentation, channel instability and degraded riparian.)
16) Government agencies should identify restoration opportunities through watershed assessments (IWAPS) and other studies.
17) Implement restoration activities including harvest and road building restrictions, road deactivation, revegetation of riparian zones to restore watershed integrity (pre-disturbance conditions.)
18) Manage all activities near fish bearing streams to protect instream flow regimes necessary for the maintenance of fish and fish habitat.
19) Restore naturalized hydrographs where possible and minimize impacts on fish and fish habitat from hydroelectric facilities.
20) Manage flows to mimic historic natural hydrographs (natural and naturalized) on modified systems (e.g., Seton, Bridge, Cayoosh)
21) Protect, maintain or enhance Bull Trout genetic diversity, quantity and quality of habitat.
22) Restore/rehabilitate aquatic and adjacent upland systems (to bull trout habitats) where forest development activities have had adverse impacts (through Watershed Restoration Program).
23) Re-establish over-wintering habitat by creating deep-water holding areas.
24) Improve spawning locations by replacing disturbed sites with more suitable spawning gravel.
25) Develop species-specific habitat improvement programs (to re-create spawning grounds, etc.).

26) Conserve and rebuild small and threatened stocks by protecting and restocking streams where small or threatened species are found.
27) Provide an adequate supply of well-distributed habitat to protect genetic diversity of fish stocks.

PRIORITY WATERSHEDS ~ "DRAFT TOP TEN":

1) Yalakom
2) Lower Bridge
3) Cayoosh
4) Seton-Portage
5) Gun
6) Texas
7) Kwoiek
8) Tyaughton
9) Upper Bridge
10) French Bar

Note: The above list of priority watersheds was compiled by Dean Watts (DFO) and Brian Chan (MELP) for consideration by the Fish/Water Working Group and the LRMP Table.

Merritt District

The Merritt Forest District has not yet completed a higher level planing exercise although it is anticipated that an LRMP process will be initiated in the near future. In the absence of an LRMP, other initiatives such as the district wide Innovative Forest Practices Agreement, a completed district wide Watershed Assessment Procedure, and temperature sensitive stream planning do provide some broad level planning direction which will undoubtedly provide guidance to the LRMP table once it is established.

Links to other programs

Fisheries Renewal

Established in July 1997, Fisheries Renewal BC (FsRBC) is a crown corporation whose mandate is to "renew the BC fisheries, promote the protection, conservation and enhancement of fish stocks, restore fish habitat and strengthen fishing communities".[9] Much like its counterpart, Forest Renewal, FsRBC will seek to meet its mandate through the funding of programs and projects that meet established funding principles. FsRBC seeks to fund activities that compliment those of the watershed restoration program under Forest Renewal, particularly:

- assist in restoring fish resources and revitalizing fisheries and communities dependent on those resources by working with and drawing on the expertise and experience of First Nations, fishers, communities and others

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[9] Fisheries Renewal BC, Strategic Plan, April 1998 to March 2001.

- encourage cooperative initiatives to complete and publish inventory and classification of streams, watersheds, marine areas, stocks and species in a way that can be used to identify needs and opportunities for rebuilding and sustaining the resource and for protecting against future damage
- fund or help coordinate strategic restoration and enhancement projects in marine areas, streams and watersheds, including small-scale urban and rural community restoration initiatives throughout the province.

Fisheries Renewal announced recently the approval of an Okanagan Basin delivery agent to join the Thompson Basin Fisheries Counsel in the delivery of a regional Salmonid Renewal Program. Comprised of representatives of the Shuswap First Nations, the Okanagan First Nations, the Nicola First Nations, the BC Wildlife Federation and the Steelhead Society of BC, the Thompson Basin Fisheries Council evaluates and funds project proposals which include restoration projects, often delivered in partnership with Forest Renewal BC, using Watershed Restoration funding as seed monies.

While the introduction of Fisheries Renewal could be viewed as a relief valve for alleviating funding pressure on Forest Renewal BC, the current funding levels of FsRBC combined with its broader mandate as it applies to fish mean that funding in areas of overlap will be likely minimal. With the appropriate coordination however, FsRBC can provide a valuable source of co-funding for activities which are outside of FRBCs mandate (stock assessments), are located on private land, or which deal with impacts other than forest development (urban/agricultural). Thus, in combination Fish Renewal and the current Forest Renewal priorities represent a significant contribution to the protection and restoration of all fish and fish habitat in British Columbia.

Federal Fisheries Programs[10]

The Watershed Restoration Program was established to address habitat damage resulting from forest development activity, regardless of jurisdictional responsibility. The Department of Fisheries and Oceans is the federal body charged with carrying out management activities relating to Canada's anadramous and ocean resident fish stocks[11]. In a majority of systems, anadramous salmon species such as Coho and Chinook are, along with provincially managed Kokanee and Rainbow stocks, the primary target species for restoration by WRP . This provincial funding of restoration of federally managed stocks requires a close working relationship with Department of Fisheries and Oceans staff, particularly in light of the ongoing habitat assessment and enhancement programs undertaken annually by DFO.

Beyond their primary Thompson Basin programs of fish management, conservation and protection and habitat protection, there are five major additional areas of management undertaken by the Department of Fisheries and Oceans. Stock assessment conducts up to $700,000 dollars worth of work primarily in the fields of adult and juvenile enumeration. The majority of this work is conducted in-house. The Habitat Restoration and Salmonid

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[10] Michael Crowe, Dept. of Fisheries and Oceans Habitat Restoration Biologist. Pers. comm.

[11] the exception to this is Steelhead stocks which have been assigned to the Province and are managed by Fisheries Branch

Enhancement Program spent this year approximately $1,040,000 on habitat restoration, enhancement and further stock assessment within the Thompson in 1998/99. Funding has gone to DFO, Aboriginal groups, community stewardship groups and societies. In addition, the Aboriginal Fisheries Strategy contributes in the order of $1,000,000 to Interior Aboriginal groups. A large portion of this goes to fisheries programs such as stock assessment, habitat restoration and development of selective and alternative fishing methods. Community stewardship programs which support community groups, educational opportunities and volunteers spends approximately $100,000 per year. The enhancement program has an annual budget of $1,000,000 to $1,500,000.

As with Fisheries Renewal Programs, there exists significant opportunities for co-funding of habitat restoration activities. This has particular application in that DFO projects are often targeted at agriculturally impacted habitats, an area that is difficult for Forest Renewal to address through its mandate. As well, longer term "monitoring" is already a significant component of DFO programs and as such can provide important historical information as well as future evidence of the effectiveness of habitat treatments.

Co-funding of restoration activities has already taken place very successfully in several watersheds in the Southern Interior Region. Through cooperative efforts on systems such as Harris Creek and Duteau Creek near Vernon and the Coldwater River near Merritt, the Watershed Restoration Program has addressed its goals at a reduced cost to the program while also building a strong relationship with the DFO.

Habitat Conservation Trust Fund

The Habitat Conservation Trust Fund (HCTF) implements a wide range of projects too benefit a range of species and habitats. Since it was established in 1991, the HCTF has provided over $30 million to fund more than 1400 projects throughout BC. In 1996, the former Habitat Conservation Fund was re-established in legislation as a trust fund, allowing more money to be spent on conservation projects.[12]

The HCTF has 4 strategic objectives relevant to this plan[13], those being :

- to protect the habitat base of biological diversity ecosystem integrity
- to appropriately conserve and, where necessary, enhance wild fish populations and their habitats
- to appropriately conserve and, where necessary, enhance wildlife populations and their habitats
- to acquire, control and manage key habitats for fish and wildlife

As with the Fisheries Renewal Program, areas of overlap do exist but are minimal. Opportunities for co-funding need to be explored in areas such as Crown/urban or Crown/private mixed tenure watershed areas and non-commercial species habitat restoration. As well, opportunities for HCTF funding of wildlife restoration activities in conjunction with FRBC watershed restoration need to be examined.

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[12] excerpt from HCTF summary found in 1997/98 Provincial Fishing Regulations Synopsis p.7

[13] Habitat Conservation Trust Fund, 1998/99 Program Application Guidebook

Process and Procedures

This Resource Management Plan was developed using the information and analysis developed by the Thompson Okanagan Watershed Committee.

The committee was established in April of 1999. It is comprised of representatives from:

Ministry of Environment, Land and Parks
Ministry of Forests
Forest Renewal BC
First Nations
Forest Industry
Fraser Basin Council
Thompson Basin Fisheries Council (Fish Renewal BC delivery agent)

A detailed membership list is included in the consultation report (Appendix).

The committee debated all aspects of the plan development including data needs, prioritization methods, consultation needs, and committee-input formats. The Ministry of Environment met all procedural and or working needs through the activities of the Forest Renewal BC coordinator (committee chair). Decision-making was by consensus although there were, and remain, serious concerns on the part of some participants over the changes to the overall program direction. These will be detailed in the participant comments in appendix.

The process followed by the committee was based upon the premise that the resulting plan would look at restoration as an activity rather than a focus on the Watershed Restoration Program of FRBC exclusively. As a first step the committee discussed and accepted four basic information needs for the prioritization of watersheds. These are:

1. Measure of fish use,
2. Measure of domestic water consumption,
3. Chances for success,
4. Level of impacts to fish and water resource.

It was agreed that planning for the program was to be conducted on a sub-regional basis, using the three major watersheds in the region: Thompson River, Okanagan River and Fraser River as planning units. This was adopted in recognition of the fact that there are vastly differing fish and water issues in between the three watersheds. Although not given recognition by the committee as a major regional watershed, the Kettle River possesses enough watershed areas to warrant their being listed separate from the three main watershed areas in the Appendices.

The committee then borrowed from the EEV Resource Management Planning Guidelines[14] and developed a list of regional target fish species and domestic water criteria. Development of this list was based upon inputs from the various committee members and provincial fisheries staff.

Key Fish Species
- Sockeye Salmon
- Coho Salmon
- Chinook Salmon
- Bull Trout
- Westslope Cutthroat
- Steelhead
- Burbot
- Special Rainbow Trout Stocks
- Kokanee

Domestic Water Criteria
- Community Watershed Status
- Volume of Domestic Use (longer term criteria)
- Number and type of water licenses (short term criteria)

Using this as a guide, a spreadsheet was developed for the compilation of relevant data. The spreadsheet, excerpts of which are included in the Appendix 9.2, includes the following data types.

General Watershed Data
Includes general descriptive data for the watershed including watershed code, planning units (see above), watershed area and forest district.

Fish Data
Includes a record by watershed indicating the presence or absence of each of the selected key fish species and second record containing a 1-3 rating for each key species present. A score of 3 denotes a watershed which is key to the species regionally, 2 denotes a watershed important to the species but not key, and 1 indicates watersheds where the species occurs but is not important to the species regionally owing to limited distribution or habitat availability. Much of the information for this component was compiled through interviews with provincial and federal fisheries staff.

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[14]

Water Data

Data collected for this component of the plan includes: number of domestic water licenses, and number of non-domestic licenses, presence of community waterworks, presence of a designated community watershed and percentage of watershed designated as CWS, Volumes of domestic and non-domestic use and overall Allocation Status. While it was the desire of the committee to use volumes as a measure of domestic water values, time constraints forced the analysis to be limited to using domestic water license counts as an indicator of domestic water values.

Development Data

Includes three records, those being development probability (rated 1-3 with 3 being high, 1 low) presence of a management plan for the watershed, and development risk (a 1-3 rating which considers the first two). Discussion around the use of this information did not result in consensus owing to industry desire to see this criteria as a primary driver of the plan, an action which would result in recommending watersheds that may not contribute to the attainment of the FRBC strategic objectives. The use of this data as secondary criteria will improve future analysis, as it will ensure that multiple benefits are derived beyond the fish and water components.

Ranking Results

Includes records for indicating if the watershed is a key watershed for fish, if it is a key watershed for domestic water, estimated timeline to restoration, FRBC watershed category and indication if watershed is a "priority" key watershed. Key watersheds for fish are all watersheds that are rated as 3 for at least one of the key fish species. Key domestic water watersheds are all designated Community Watersheds and those non-designated watersheds with in excess of 50 domestic use licenses. Watersheds will be given greater emphasis in the plan according to the number species rated as 3. Community watersheds with community waterworks will be given greater emphasis in the plan. In this way the large list of key watersheds can be further broken down into very high and high priority.

The FRBC watershed categories are as follows:

Cat.	**Interpretation**
I	Watersheds that have known impacts from pre-Code forestry that will potentially benefit from restoration activities
II	Watersheds with significant impacts from other land uses (or private land development) that will potentially benefit from restoration activities – require co-funding/cooperative efforts
III	Watersheds with minimal or no forestry related impairment of fish habitat or water quality
IV	Watersheds known to be impacted to such an extent that restoration effort is unlikely to be successful
V	Watersheds with insufficient data to make a determination – deferred
VI	Watersheds with significant restoration investment – monitoring needed

Land Use Impact Ratings
Includes 1-3 ratings (3 being high, 2 moderate, 1 low) for impact on the fish and domestic water resource resulting from the following land uses/disturbance types:

1. Agriculture
2. Linear development
3. Forestry
4. Mining
5. Urban
6. Water Impoundment
7. Natural disturbance

Watershed Status
Includes records to indicate the status (completed, in progress, not started) of the various upslope and instream assessments, prescription development and active restoration activities.

This spreadsheet was then distributed along with the watershed base map to all members of the committee. The members were then responsible for the dissemination of the information request to their constituents. Data inputs were requested for any component upon which the submitting licensee/agency/First Nation had relevant information. The resulting submissions were then compiled into a single spreadsheet. Baseline information on domestic licensing and fish values were derived form interviews with provincial fisheries and DFO staff and water licensing data was derived from the MELP GIS databases using the base map developed by the committee. Other data sources considered include:

Watershed Ranking Tool data
Fish Inventory Summary System (FISS)
Previous WRP prioritization results
Fisheries management reports

After discussion by the committee it was agreed that:

Key watersheds are those watersheds that:

- Have one of the seven (7) target species rated as a 3; or
- Have Community Watershed Status; or
- Have more than 50 domestic use water licenses

Priority key watersheds are those key watersheds that fall into categories I II or VI.

No attempt was made to "rank" the watersheds, rather the intent was to develop a list of watersheds which, if pursued as restoration projects, would contribute to meeting the

EEV strategic objective and performance measures regionally and provincially. Selection form this list by proponent provides needed flexibility to address other goals and objectives while still meeting the strategic objective.

No attempt was made to derive cost projections for the projects as this is outside of the objectives of the current RMP guidelines and is better left to project managers to develop as a part of project level planning.

Priority Key Watershed List

Ref #	WRP Planning Unit	PROJECT (WATERSHED) NAME	Key Species	Key Watershed (Fish) (Y/N)	Key Watershed (Domestic Water) (Y/N)	Watershed Category (I-VI)
96	Fraser	Carpenter Lk	St	Yes	No	I
94	Fraser	Hurley/Cadwallader	Bt	Yes	Yes	I
112	Fraser	Kwoieck Cr	Co, Ch, Bt	Yes	No	I
100	Fraser	Lower Bridge R	Co, Ch, So, St	Yes	Yes	II
110	Fraser	Lower Cayoosh	Co, Ch, So	Yes	No	I
113	Fraser	Nikaia Cr	N/A	No	Yes	I
115	Fraser	Siwash Cr	N/A	No	Yes	I
109	Fraser	Texas Cr	Co, Ch, So	Yes	No	I
91	Fraser	Tyaughton / Marshall	Bt	Yes	No	I
93	Fraser	Upper Bridge R	St, Bt	Yes	No	I
90	Fraser	Yalakom R	Co, Ch, Bt	Yes	No	I
158	Kettle	Dale/Wilkinson Ck	N/A	No	Yes	I
169	Kettle	Upper W Kettle R	N/A	No	Yes	I
148	Okanagan	Allison Creek	Ko	Yes	Yes	II
184	Okanagan	Coldstream Ck	Ko, Rb	Yes	Yes	I
251	Okanagan	Dillard Creek CWS	N/A	No	Yes	I
156	Okanagan	Ellis Ck	N/A	No	Yes	II
149	Okanagan	Hayes Creek	N/A	No	Yes	III I
153	Okanagan	Inkaneep Ck	So	Yes	No	I
181	Okanagan	Kelowna Ck	Ko	Yes	Yes	I
205	Okanagan	Lambly Ck	N/A	No	Yes	
186	Okanagan	Mid Shuswap River (Holstein/Bigg/Ireland)(Mabel Lk SE)	Co, Ch, So	Yes	No	I
168	Okanagan	Mission Ck	Ko, Bb, Rb	Yes	Yes	I
160	Okanagan	Naramata/Robinson	Ko	Yes	Yes	I
202	Okanagan	Nashwhito Ck	Ko	Yes	No	I
136	Okanagan	NW Tulameen River	Ko	Yes	No	I
152	Okanagan	Okanagan R	Ch, So, St, Ko, Rb	Yes	Yes	II
183	Okanagan	Oyama Ck	N/A	No	Yes	I

164	Okanagan	Peachland Cr	Ko	Yes	Yes	I
206	Okanagan	Pennask	Rb	Yes	No	I
159	Okanagan	Penticton Ck	Ko	Yes	Yes	I
166	Okanagan	Powers	Ko	Yes	Yes	I
146	Okanagan	Similkimeen River - d/s of Tulameen	So	Yes	Yes	II
140	Okanagan	Similkimeen River u/s of Tulameen	N/A	No	Yes	I
165	Okanagan	Trepanier Cr.	Ko, Bb	Yes	Yes	II
163	Okanagan	Trout/Eneas Ck	Ko	Yes	Yes	I
147	Okanagan	Tulameen River d/s of Otter Creek	Rb	Yes	Yes	II
154	Okanagan	Vaseaux Ck	So	Yes	No	I
182	Okanagan	Vernon Ck	Ko, Bb	Yes	Yes	I
203	Okanagan	Whiteman Ck	Ko	Yes	No	I
24	Thompson	Blue River/White R	N/A	No	Yes	I
35	Thompson	Upper Adams River: Adams Lake - Anderson	Co, Ch, So, Bt, Ko	Yes	No	I
54	Thompson	Adams Lake/Lower Adams River	Co, Ch, So	Yes	Yes	II
4	Thompson	Adolph Creek	Bt	Yes	No	I
5	Thompson	Albreda River	Co,Bt	Yes	No	I
223	Thompson	Apalmer/Siphon Cr.	Co, Ch	Yes	No	I/VI
46	Thompson	Barriere R	Co, Ch, So, Bt, Ko, Bb, Rb	Yes	Yes	I
78	Thompson	Bonaparte R	Co, Ch, St	Yes	Yes	I II
61	Thompson	Campbell Cr	Co	Yes	Yes	II
236	Thompson	Celista Ck	Co, So	Yes	No	I/V
224	Thompson	Chase Ck	Ch	Yes	No	VI
133	Thompson	Clapperton Creek		Yes	No	II
129	Thompson	Coldwater River	Co, Ch, St, Bt	Yes	Yes	I
83	Thompson	Deadman R	Co, Ch, St	Yes	Yes	II
199	Thompson	Deep Ck	N/A	No	Yes	II
216	Thompson	Deer Ck CWS	N/A	No	Yes	I
180	Thompson	Duteau Ck	Co, Ch	Yes	Yes	II
245	Thompson	Eagle R	Co, Ch, So, Ct, Rb	Yes	Yes	II
28	Thompson	Finn Cr	Ch	Yes	No	I
198	Thompson	Fortune Cr. (Armstrong Face)	Co	Yes	Yes	I
256	Thompson	Glanzier Ck CWS	N/A	No	Yes	?
179	Thompson	Harris Ck	Co, Ch	Yes	No	II
64	Thompson	Heffley Cr	Co	Yes	No	II
56	Thompson	Hiuihill Cr	Co, Ch, So	Yes	No	II
219	Thompson	Kingfisher Ck	Co	Yes	No	I
21	Thompson	L. Clearwater East (Moul/Fage/Candle/2 Canyon/3 Canyon)	Ch	Yes	No	I
20	Thompson	L. Clearwater West (Brookfiled/Gill to Murtle River)	Ch	Yes	Yes	I

16	Thompson	L. Clearwater: Moul Ck - Murtle River (incl Hemp Creek)	Ch	Yes	No	I
222	Thompson	Larch / Mt. Ida	N/A	No	Yes	II
48	Thompson	Lemieux Cr	Co	Yes	No	II
57	Thompson	Little River/Little Shuswap Lake	Co, Ch, So	Yes	No	II
52	Thompson	Loius Cr	Co, Ch	Yes	No	II
131	Thompson	Lower Guichon Creek	Co, Ch, St, Ko	Yes	No	II
44	Thompson	Lower North Thompson Residual	Co, Ch, So	Yes	Yes	I
220	Thompson	Lower Shuswap (Brash/Ashton/Cook Ck)	Co, CH	Yes	Yes	I
221	Thompson	Lower Shuswap R.East (Mara Lake - Fortune Cr.)	Co, Ch, So	Yes	Yes	I
193	Thompson	Mabel Lk Tribs East (Smyth/Latewhos)	Co	Yes	No	I
17	Thompson	Mahood Lake	Ko	Yes	No	I
19	Thompson	Mann Cr	Co, Ch	Yes	No	I
33	Thompson	Momich/Ceyenne	Co, So, Bt, Ko	Yes	No	I
60	Thompson	Monte Cr	Co	Yes	No	II
134	Thompson	Moore Cr	Ko	Yes	No	II
10	Thompson	Mud Cr	Co	Yes	No	I
120	Thompson	Murray / Twaal	N/A	No	Yes	
25	Thompson	N. Blue R.	Co, Ch	Yes	No	I
29	Thompson	N. Thompson: Homestead - Lion Ck	Co	Yes	Yes	I
26	Thompson	N. Thompson: Lion Ck - Thunder River	Co	Yes	No	I
42	Thompson	N. Thompson: Raft River - Reg Christie	Co, Ch. So	Yes	No	I
126	Thompson	Nicola River - Guichon to Skuhun	Co, Ch. St	Yes	No	I
55	Thompson	Nikwikwaia (Gold) Cr	Co, So	Yes	No	VI
218	Thompson	Noisy Ck	Co, Bb	Yes	No	I
7	Thompson	North Thompson Pyramid - Bone Cr.	Co	Yes	No	I
233	Thompson	Onyx Ck	Co	Yes	No	I
31	Thompson	Otter Cr	Bt	Yes	No	I
243	Thompson	Perry R	Co, Ch. So	Yes	No	II
49	Thompson	Peterson Cr (North Thompson)	Co, Ch	Yes	Yes	I
22	Thompson	Raft R	Co, Ch, So	Yes	No	I
39	Thompson	Reg Christie Cr.	Co	Yes	No	I
43	Thompson	Russel/Hascheak/McDougall	N/A	No	Yes	I
214	Thompson	Salmon R	Co, Ch, So, Bb	Yes	Yes	II
232	Thompson	Scotch Ck	Co, Ch, So, Bb Rb	Yes	No	II
229	Thompson	Shuswap L Main Arm)	Co, Ch, So	Yes	Yes	I
228	Thompson	Shuswap L (Salmon Arm)	Co, Ch, So	Yes	Yes	I
51	Thompson	Sinmax	Co, Ko	Yes	No	II
59	Thompson	South Thompson	Co, Ch, So	Yes	Yes	II
128	Thompson	Spius Creek	Co, Ch, St, Bt	Yes	No	II
225	Thompson	Tappen Cr.	Co, So	Yes	Yes	I

244	Thompson	TFL 33	So	Yes	No	I
69	Thompson	Tranquille/Watching	Co, Ch, So	Yes	Yes	I
192	Thompson	Tsiuis Cr	Co	Yes	No	I
27	Thompson	Upper Adams:U/S of Briggs Ck	Co, Ch, So	Yes	No	I
3	Thompson	Upper N. Thompson	Co,Bt	Yes	No	I
211	Thompson	Upper Nicola River	Bb	Yes	No	II
217	Thompson	Wap Ck	Co, Ch, So	Yes	No	I
226	Thompson	White Cr.	Co, Ch	Yes	Yes	II

Denotes Mainstem systems where size and/or flow make effective restoration more difficult

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Appendices

Regional Watershed Map

Sub-Regional Watershed Data Summaries

Thompson River Watershed

Ref #	PROJECT (WATERSHED) NAME	Coho Species Rating (1-3)	ChinookSpecies Rating (1-3)	Sockeye Species Rating (1-3)	Steelhead Species Rating (1-3)	Bull Trout Species Rating (1-3)	Westslope Cutthroat Species Rating (1-3)	KokaneeSpecies Rating (1-3)	Burbot Species Rating (1-3)	Special Rainbow Stock Rating (1-3)	Project Includes Designated CWS (Y/N)	# domestic water licenses	Key Watershed (Fish) (Y/N)	Key Watershed (Domestic Water) (Y/N)	Development Probability (1-3)	Priority Key Watershed (Y/N)	Comments
24	Blue River/White R					1					Y	2	No	Yes	3	Yes	
35	Upper Adams River: Adams Lake - Anderson	3	3	3		3		3			N	1	Yes	No	3	Yes	
54	Adams Lake/Lower Adams River	3	3	3						3	Y	61	Yes	Yes	2	Yes	Road failure on Holdings Road a concern, Park Protection (RHB)
4	Adolph Creek					3					N	0	Yes	No	3	Yes	
5	Albreda River	3	1			3					N	1	Yes	No	3	Yes	
240	Anstey R	3	3	3					3		N	0	Yes	No	3	Yes	Limited fish habitat restoration opportunities identified.
223	Apalmer/Siphon Cr.	3	3								N	37	Yes	No	3 2	Yes	
2	**Azure Lake**										**N**	**0**	**No**	**No**	**1**	**No**	**Wells Gray Park - FRBC Ineligible**
81	Barnes Cr										N	2	No	No	1	No	No known serious problems.
37	Barrier Pass										N	2	No	No	3	No	
46	Barriere R	3	3	3		3		3	3	3	Y	100	Yes	Yes	3	Yes	Leonie Cr. CWS large development proposed

208	Beak Cr.										N	0	No	No	3	No	High. Good opportunities for restoration
72	Beaton Cr										N	7	No	No	1	No	
41	Blackberg/Montana					2					N	19	No	No	3	No	
78	Bonaparte R	3	3		3					3	Y	224	Yes	Yes	2	Yes	Riparian prescription for Medicine,Blue Earth, Hat & Scottie sub-basins
8	Bone Cr.										N	0	No	No	3	No	
215	BX Ck								3		Y	56	Yes	Yes	2	No	
61	Campbell Cr	3	2								N	83	Yes	Yes	2	Yes	* SCUITTO CREEK SUB-BASIN ONLY
18	Canimred Cr										N	0	No	No	3	No	
236	Celista Ck	3		3							N	0	Yes	No	3 2	Yes	
209	Chapperon/Frank Ward Cr.										N	2	No	No	1 2	No	Low priority area.
224	Chase Ck	2	3								N	40	Yes	No	3 2	Yes	Restoration efforts were initiated based on concerns by the City of Kamloops as Chase Creek was considered a significant sediment source and by local residents, following a series of consecutive flood events. The key factors have been identified and are in the process of being treated. Insect epidemic is accelerating. There is a chinook spawning riffle near the mouth of Chase Creek. The creek channel through the Village of Chase no longer meets the 200 year flood rating due to sediment arrival. Work to date in the mid and upper stem has reduced the rate of sediment transport. The results of restoration efforts are now visible. Further work will be necessary in future years to protect existing investments.
177	Cherry Ck		2								N	25	No	No	2 3	No	
71	Cherry Cr										N	14	No	No	1	No	
133	Clapperton Creek	3	3		2						N	6	Yes	No	3 1	Yes	
129	Coldwater River	3	3		3	3					Y	53	Yes	Yes	3	Yes	Coquihalla Hwy Enhancement, smolt pond, restoration underway. Extensive forestry, agriculture, development & linear corridors

231	Corning (Lee) Ck			2							N	20	No	No	2 1	No	Applied for CWS status
79	Cornwall CWS										Y	0	No	Yes	1	No	
68	Dairy Cr										N	2	No	No	1	No	
246	Darlington / Lindquist										N	1	No	No		No	
83	Deadman R	3	3	2	3						N	55	Yes	Yes	1	Yes	Riparian prescription for Gorge sub-basin only
199	Deep Ck							1		1	Y	77	No	Yes	2	Yes	
73	Durand Cr										N	4	No	No	2	No	Channel assessment on Durand Lake sub-basin only
180	Duteau Ck	3	3								Y	1	Yes	Yes	4 1	Yes	FFHI needed. High sites offer EF opportunity.
245	Eagle R	3	3	3			3			3	N	83	Yes	Yes	2	Yes	Historic logging, ongoing agriculture and development pressure, riparian loss
13	File Cr										N	0	No	No	1	No	Wells Gray Park - FRBC Ineligible
28	Finn Cr	2	3			1					N	0	Yes	No	3	Yes	
261	Finntree Face (Hope & Norris CWS)										Y		No	Yes	1	No	
198	Fortune Cr. (Armstrong Face)	3									Y	44	Yes	Yes	2	Yes	There is a nominal amount of restoration work to be done.
242	Four Mile Creek										N	2	No	No	1 2	No	
34	Gannett Cr/Tsikwustum Ck.										N	0	No	No	3	No	
256	Glanzier Ck CWS										Y	3	No	Yes		Yes	
132	Gordon Creek	3	3		1						N	1	Yes	No	1	No	
74	Guichon CWS - Now delisted	3	3		1						N	0	Yes	No	1	No	
179	Harris Ck	3	3								N	5	Yes	No	3 1	Yes	Channel monitoring, high sites require stand treatments.
64	Heffley Cr	3	2								N	36	Yes	No	1	Yes	Sediment sources on private land - culverts review needed
9	Hellroar Cr										N	0	No	No	3	No	
56	Hiuihill Cr	3	3	3							N	6	Yes	No	1	Yes	Obstruction to fish passage at 0.8km.
241	Hunakwa Lake	3		3							Y	4	Yes	Yes	1	No	
121	Inkikuh Cr				1						N	2	No	No	1	No	
200	Irish Ck										Y	8	No	Yes	3	No	
66	Jamieson Cr					2					N	3	No	No	2	No	several eroding alluvial cuts, bad silt slide at 4.5 km

82	Jimmies CWS										Y	0	No	Yes	1	Yes	
45	Joseph/Dunn Cr's	3	3	2					3		N	9	Yes	No	2 3	No	Dunn creek TSM C
70	Kamloops	2	2	2							N	44	No	No	1	No	
219	Kingfisher Ck	3	2	2							N	3	Yes	No	1 2	Yes	High. Key fishery area. This watershed is important to the Spallumcheen Indian Band.
65	Knouff Cr										N	20	No	No	2	No	localized trout spawning - needs cilvert review
21	L. Clearwater East (Moul/Fage/Candle/2 Canyon/3 Canyon)	2	3			2					N	49	Yes	No	3	Yes	
20	L. Clearwater West (Brookfiled/Gill to Murtle River)	2	3			2					Y	1	Yes	Yes	3	Yes	Brookfield Creek habitat in decline
16	L. Clearwater: Moul Ck - Murtle River (incl Hemp Creek)	1	3	1		2					N	12	Yes	No	3	Yes	
222	Larch / Mt. Ida										Y	102	No	Yes	2	Yes	
48	Lemieux Cr	3	2	1				1			N	30	Yes	No	3	Yes	Access- dry sections
230	Little River/Little Shuswap Lake	3	3	3					3		N	17	Yes	No	1	Yes	
57	Little River/Little Shuswap Lake	3	3	3							N	20	Yes	No	1	Yes	
80	Lopez CWS										Y N	0	No	Yes	1	No	
52	Louis Cr	3	3								N	49	Yes	No	3	Yes	Access - beaver dams
185	Lower Bessette Ck	3	3	2							Y	51	Yes	Yes	3	No	Extensive logging, agriculture and development pressure - Assess. Fence, enhancement, restoration underway
131	Lower Guichon Creek	3	3		3			3			N	42	Yes	No	2 3	Yes	
44	Lower North Thompson Residual	3	3	3		2					Y	78	Yes	Yes	2	Yes	SYSTEM MAINSTEM
220	Lower Shuswap (Brash/Ashton/Cook Ck)	3	3								Y	82	Yes	Yes	3 1	Yes	High. Brash is a used as a source of water for the Town of Enderby. This watershed is important to the Spallumcheen Indian Band
221	Lower Shuswap R.East (Mara Lake - Fortune Cr.)	3	3	3							Y	235	Yes	Yes	3	Yes	SIGNIFICANT DOMESTIC SYSTEM
193	Mabel Lk Tribs East (Smyth/Latewhos)	3									N	14	Yes	No	2 3	Yes	
195	Mabel Lk Tribs West	3									N	10	Yes	No	3	No	
30	Mad R	1	2								N	0	No	No	3	No	
17	Mahood Lake							3		3	N	0	Yes	No	3	Yes	
19	Mann Cr	3	3								N	2	Yes	No	3	Yes	

248	Martin Mountain										N	46	No	No		No	
237	McNomee Ck	3		3						3	N	0	Yes	No	1 2	No	
253	Mellin Cr.										N	0	No	No	2	No	
187	Mid Shuswap River (Schunteer/Specht Cr.)	3	3	3							N	10	Yes	No	2	No	
14	Middle Clearwater		3			1					N	1	Yes	No	1	No	Wells Gray Park - FRBC Ineligible
33	Momich/Cayenne	3		3		3		3			N	0	Yes	No	3	Yes	
176	Monashee Ck										N	4	No	No	2	No	W/S condition report issued. Needs FFHI and TSM (underway).
60	Monte Cr	3	2								N	40	Yes	No	2 1	Yes	Minor work remains
6	Moonbeam/Serpentine/Pyramid	1				2					N	1	No	No	3	No	
134	Moore Cr							3			N	3	Yes	No		Yes	
10	Mud Cr	3	1			2					N	0	Yes	No	3	Yes	
120	Murray / Twaal										Y	7	No	Yes	3	Yes	Community water source for Spences Bridge
12	Murtle Lk.							2			N	0	No	No	1	No	Wells Gray Park - FRBC Ineligible
15	Murtle River					1					N	0	No	No	3	No	Wells Gray Park - FRBC Ineligible
25	N. Blue R.	3	3			2					N	0	Yes	No	3	Yes	
29	N. Thompson: Homestead - Lion Ck	3	2			2					Y	16	Yes	Yes	3	Yes	SYSTEM MAINSTEM
26	N. Thompson: Lion Ck - Thunder River	3	2			2					N	2	Yes	No	3	Yes	SYSTEM MAINSTEM
42	N. Thompson: Raft River - Reg Christie	3	3	3		2					N	38	Yes	No	3	Yes	SYSTEM MAINSTEM
252	Nicola Lake				2			3	3		N	11	Yes	No	1	No	
126	Nicola River - Guichon to Skuhun	3	3		3						N	9	Yes	No	2	Yes	
130	Nicola River - Nic. Lake to Guichon	3	3		3	2					N	10	Yes	No	1	No	
123	Nicola River d/s of Guichon Creek	3	3		3						N	32	Yes	No	3 1	No	
55	Nikwikwaia (Gold) Cr	3		3							N	0	Yes	No	2	Yes	
58	Niskonlith Cr	2	2	2							N	9	No	No	1	No	potential impacts from quarry operation
218	Noisy Ck	3		2					3		N	0	Yes	No	2 1	Yes	High. Restoration work is planned for 2000/2002
7	North Thompson Pyramid - Bone Cr.	3	2			2					N	0	Yes	No	3	Yes	
36	now part of polygon #54												No	No	3	No	
127	Nuaitch Creek	3	3		3	3					N	2	Yes	No	2 1	No	
233	Onyx Ck	3		2							N	21	Yes	No	1	Yes	

248	Martin Mountain										N	46	No	No		No	
237	McNomee Ck	3		3						3	N	0	Yes	No	1 2	No	
253	Mellin Cr.										N	0	No	No	2	No	
187	Mid Shuswap River (Schunteer/Specht Cr.)	3	3	3							N	10	Yes	No	2	No	
14	**Middle Clearwater**		**3**			**1**					**N**	**1**	**Yes**	**No**	**1**	**No**	**Wells Gray Park - FRBC Ineligible**
33	Momich/Cayenne	3		3		3		3			N	0	Yes	No	3	Yes	
176	Monashee Ck										N	4	No	No	2	No	W/S condition report issued. Needs FFHI and TSM (underway).
60	Monte Cr	3	2								N	40	Yes	No	2 1	Yes	Minor work remains
6	Moonbeam/Serpentine/Pyramid	1				2					N	1	No	No	3	No	
134	Moore Cr							3			N	3	Yes	No		Yes	
10	Mud Cr	3	1			2					N	0	Yes	No	3	Yes	
120	Murray / Twaal										Y	7	No	Yes	3	Yes	Community water source for Spences Bridge
12	**Murtle Lk.**							**2**			**N**	**0**	**No**	**No**	**1**	**No**	**Wells Gray Park - FRBC Ineligible**
15	**Murtle River**					**1**					**N**	**0**	**No**	**No**	**3**	**No**	**Wells Gray Park - FRBC Ineligible**
25	N. Blue R.	3	3			2					N	0	Yes	No	3	Yes	
29	**N. Thompson: Homestead - Lion Ck**	**3**	**2**			**2**					**Y**	**16**	**Yes**	**Yes**	**3**	**Yes**	**SYSTEM MAINSTEM**
26	**N. Thompson: Lion Ck - Thunder River**	**3**	**2**			**2**					**N**	**2**	**Yes**	**No**	**3**	**Yes**	**SYSTEM MAINSTEM**
42	**N. Thompson: Raft River - Reg Christie**	**3**	**3**	**3**		**2**					**N**	**38**	**Yes**	**No**	**3**	**Yes**	**SYSTEM MAINSTEM**
252	Nicola Lake				2			3	3		N	11	Yes	No	1	No	
126	**Nicola River - Guichon to Skuhun**	**3**	**3**		**3**						**N**	**9**	**Yes**	**No**	**2**	**Yes**	
130	**Nicola River - Nic. Lake to Guichon**	**3**	**3**		**3**	**2**					**N**	**10**	**Yes**	**No**	**1**	**No**	
123	**Nicola River d/s of Guichon Creek**	**3**	**3**		**3**						**N**	**32**	**Yes**	**No**	**3 1**	**No**	
55	Nikwikwaia (Gold) Cr	3		3							N	0	Yes	No	2	Yes	
58	Niskonlith Cr	2	2	2							N	9	No	No	1	No	potential impacts from quarry operation
218	Noisy Ck	3		2					3		N	0	Yes	No	2 1	Yes	High. Restoration work is planned for 2000/2002
7	**North Thompson Pyramid - Bone Cr.**	**3**	**2**			**2**					**N**	**0**	**Yes**	**No**	**3**	**Yes**	
36	now part of polygon #54												No	No	3	No	
127	Nuaitch Creek	3	3		3	3					N	2	Yes	No	2 1	No	
233	Onyx Ck	3		2							N	21	Yes	No	1	Yes	

31	Otter Cr	1				3					N	0	Yes	No	3	Yes	
63	Paul Cr	3									Y N	99	Yes	Yes	2	Yes	
243	Perry R	3	3	3							N	0	Yes	No	2	Yes	
62	Peterson Cr										N	23	No	No	1	No	
49	Peterson Cr (North Thompson)	3	3								Y	7	Yes	Yes	3	Yes	
122	Pimainus Creek				1						N	4	No	No	2	No	
38	Pisima										N	0	No	No	3	No	
76	Pukaist Cr				1						N	1	No	No	1	No	
135	Quilchena Creek				2						N	15	No	No	2	No	
22	Raft R	3	3	3							N	4	Yes	No	3	Yes	Extensive and recent forestry, substantial agriculture in lower end
210	Range Cr.										N	2	No	No	3	No	
239	Ratchford Ck										N	0	No	No	2	No	
39	Reg Christie Cr.	3									N	4	Yes	No	3	Yes	
227	Reinecker Cr.			3							N	1	Yes	No	1	Yes	Access limited by Margaret Falls - fish habitat below located within Herald Provincial Park
234	Ross Creek	2		2							N	1	No	No	1	No	
43	Russel/Hascheak/McDougall					2					Y	2	No	Yes	3	Yes	
214	Salmon R	3	3	3					3		Y	211	Yes	Yes	2 3	Yes	Key watershed status already recognized. Considerable riparian work has been completed by the Salmon River Roundtable in cooperation with the Dept of Fisheries and Oceans and the Fraser Basin. Road and hillslope work is getting underway in 1999/00 now that the IWRP has been completed.
40	Sawfly					2					N	0	No	No	3	No	
232	Scotch Ck	3	3	3					3	3	N	4	Yes	No	3 2	Yes	
235	Seymour Arm	3	3	3							N	74	Yes	Yes	1 3	No	
238	Seymour R	3	3	3						3	N	4	Yes	No	2	No	
125	Shakan Creek	3	3		3						N	2	Yes	No	2 1	No	
229	Shuswap L Main Arm)	3	3	3							Y	614	Yes	Yes	1	Yes	
228	Shuswap L (Salmon Arm)	3	3	3							N	58	Yes	Yes	1 2	Yes	Significant domestic use - Farrell Ck - 24 PODs/Bastion Creek applies for CWS status

51	Sinmax	3		2		2		3			N	23	Yes	No	3	Yes	Integrated Fish/Channel/Riparian assessment completed
124	Skuhun Creek				3						N	6	Yes	No	2 1	No	
50	Skull / Fishtrap										N	1	No	No	3	No	Skull Only
23	Snookwa R										N	0	No	No	3	No	Wells Gray Park - FRBC Ineligible
59	South Thompson	3	3	3							N	181	Yes	Yes	1	Yes	SYSTEM MAINSTEM
212	Spahomin Cr.	2									N	2	No	No	2	No	
53	Spapilem										N	5	No	No	2	No	
189	Spectrum Cr.										N	0	No	No	2	No	
128	Spius Creek	3	3		3	3					N	14	Yes	No	2 3 2/3	Yes	Extensive and recent logging, gradual green up of old fires, hatchery.
213	Stump Lake										N	10	No	No	1	No	
188	Sugar Lake (N/NE (Outer/Sitkum/Sugar/Kate/Star Cr.)										N	1	No	No	2 3	No	
194	Sugar Lake West (Sprocton/Reiter)										N	4	No	No	1 2	No	
225	Tappen Cr.	3		3							N	62	Yes	Yes	1	Yes	Very High domestic water use
244	TFL 33			3							N	34	Yes	No	3 2	Yes	
77	Thompson River	3	3	3	3	2					N	65	Yes	Yes	1	No	
11	Thunder R										N	0	No	No	3	No	
47	Thuya										N	11	No	No	3	No	
69	Tranquille/Watching	3	3	3	1						Y	14	Yes	Yes	2	Yes	Tolko completing Channel Assessment
192	Tsiuis Cr	3		1							N	0	Yes	No	3	Yes	Much RR and HR work to do. TSM needed. Good sites offer opp. For EF.
27	Upper Adams:U/S of Briggs Ck	3	3	3		3					N	0	Yes	No	3	Yes	
1	Upper Clearwater										N	0	No	No	1	No	Wells Gray Park - FRBC Ineligible
75	Upper Guichon				1						N	41	No	No	1	No	
3	Upper N. Thompson	3	2			3					N	0	Yes	No	3	Yes	
207	Upper Nicola Above Chapperon Cr.								3		Y	1	Yes	Yes	1	No	Assess. fence, unscreened ditches, enhancement, smolt pond, dam passage High. Good opportunities for restoration.
211	Upper Nicola River	2			2				3		N	14	Yes	No	1/3	Yes	
262	Upper Shuswap East (Gates.Van										N	2	No	No	2	No	

51	Sinmax	3		2		2		3			N	23	Yes	No	3	Yes	Integrated Fish/Channel/Riparian assessment completed
124	Skuhun Creek				3						N	6	Yes	No	2 1	No	
50	Skull / Fishtrap										N	1	No	No	3	No	Skull Only
23	Snookwa R										N	0	No	No	3	No	Wells Gray Park - FRBC Ineligible
59	South Thompson	3	3	3							N	181	Yes	Yes	1	Yes	SYSTEM MAINSTEM
212	Spahomin Cr.	2									N	2	No	No	2	No	
53	Spapilem										N	5	No	No	2	No	
189	Spectrum Cr.										N	0	No	No	2	No	
128	Spius Creek	3	3		3	3					N	14	Yes	No	2 3 2/3	Yes	Extensive and recent logging, gradual green up of old fires, hatchery.
213	Stump Lake										N	10	No	No	1	No	
188	Sugar Lake (N/NE (Outer/Sitkum/Sugar/Kate/Star Cr.)										N	1	No	No	2 3	No	
194	Sugar Lake West (Sprocton/Reiter)										N	4	No	No	1 2	No	
225	Tappen Cr.	3		3							N	62	Yes	Yes	1	Yes	Very High domestic water use
244	TFL 33			3							N	34	Yes	No	3 2	Yes	
77	Thompson River	3	3	3	3	2					N	65	Yes	Yes	1	No	
11	Thunder R										N	0	No	No	3	No	
47	Thuya										N	11	No	No	3	No	
69	Tranquille/Watching	3	3	3	1						Y	14	Yes	Yes	2	Yes	Tolko completing Channel Assessment
192	Tsiuis Cr	3		1							N	0	Yes	No	3	Yes	Much RR and HR work to do. TSM needed. Good sites offer opp. For EF.
27	Upper Adams:U/S of Briggs Ck	3	3	3		3					N	0	Yes	No	3	Yes	
1	Upper Clearwater										N	0	No	No	1	No	Wells Gray Park - FRBC Ineligible
75	Upper Guichon				1						N	41	No	No	1	No	
3	Upper N. Thompson	3	2			3					N	0	Yes	No	3	Yes	
207	Upper Nicola Above Chapperon Cr.								3		Y	1	Yes	Yes	1	No	Assess. fence, unscreened ditches, enhancement, smolt pond, dam passage High. Good opportunities for restoration.
211	Upper Nicola River	2			2				3		N	14	Yes	No	1/3	Yes	
262	Upper Shuswap East (Gates.Van										N	2	No	No	2	No	

	Wyk/Lindmark)																
191	Upper Shuswap West										N	0	No	No	2	No	High priority for all activities.
190	Vigue Cr.										N	0	No	No	1	No	
32	Wallace Creek/Harbour Creek/Dudgeon Creek					2					N	0	No	No	3	No	
217	Wap Ck	3	3	3							N	0	Yes	No	3 2	Yes	High level of development planned High. Restoration work is planned for 2000/2002
226	White Cr.	3	3								N	138	Yes	Yes	1 2	Yes	High domestic water use
67	Whitewood										N	5	No	No	2	No	
119	Botainie Cr										N	20	No	No	3	No	
117	Nicoamen Cr				1						N	2	No	No	1	No	Just completing first pass harvesting - need to reduce potential for debris torrenting and siltation, fall limit fish access to lower reaches
257	name?										N	23	No	No		No	

Okanagan Watershed

Ref #	PROJECT (WATERSHED) NAME	Coho Species Rating (1-3)	ChinookSpecies Rating (1-3)	Sockeye Species Rating (1-3)	Steelhead Species Rating (1-3)	Bull Trout Species Rating (1-3)	Westslope Cutthroat Species Rating (1-3)	KokaneeSpecies Rating (1-3)	Burbot Species Rating (1-3)	Special Rainbow Stock Rating (1-3)	Project Includes Designated CWS (Y/N)	# domestic water licenses	Key Watershed (Fish) (Y/N)	Key Watershed (Domestic Water) (Y/N)	Development Probability (1-3)	Priority Key Watershed (Y/N)	Comments
148	Allison Creek							3		2	Y	62	Yes	Yes	3	Yes	
151	Ashnola/Snowy Mtn									3	N	17	Yes	No	2	Yes	
161	Bellevue Ck									2	N	4	No	No	1	No	
178	Bonneau/Ferry		2								N	12	No	No	3	No	
258	Christian	3									N	U	Yes	Yes	?	Yes	
184	Coldstream Ck							3		3	Y	17	Yes	Yes	3	Yes	
139	Copper Creek										N	0	No	No	3	No	
216	Deer Ck CWS										Y	0	No	Yes	3	Yes	
251	Dillard Creek CWS										Y	1	No	Yes	3	Yes	
156	Ellis Ck									1	Y	1	No	Yes	?	Yes	low flow impacting fish habitat

201	Equesis Ck							3		2	N	11	Yes	No	2	No	
260	Haggart										N	0	No	No	2	No	
149	Hayes Creek									2	Y	67	No	Yes	3	Yes	High. Works in progress in Shinnish Creek
150	Hedley/McNulty Creek									1	N	1	No	No	3	No	
197	Hidden										N	11	No	No	3	No	Needs TSM, FFHI, SSS.
153	Inkaneep Ck			3				2		2	N	8	Yes	No	3	Yes	Recent slide at Gregoire Creek / McKinney Road crossing. Major main stem impacts. Fish stream ID and biophysical assessments on affected reaches are being undertaken by Okanagan Nation Fisheries Commission using Fisheries Renewal funding. Work beginning August/99.
181	Kelowna Ck							3		2	Y	0	Yes	Yes	2	Yes	Key. Part of W/S is in Penticton FD.
254	Keremeos Ck									2	Y	44	No	Yes	1	No	
205	Lambly Ck							2		2	Y	5	No	Yes		Yes	Key. CWS for Lakeview Heights.
259	McDougal Ck									1	N	18	No	No	2	No	
186	Mid Shuswap River (Holstein/Bigg/Ireland)(Mabel Lk SE)	3	3	3							N	43	Yes	No	2 3	Yes	Need TSM and FFHI. Good opp. For EF. Need RR near Big Cr. Bridge.
168	Mission Ck							3	3	3	Y	98	Yes	Yes	3	Yes	Key. CWS for Kelowna.
160	Naramata/Robinson							3		1	Y	4	Yes	Yes	2	Yes	
202	Nashwhito Ck							3		2	N	1	Yes	No	2	Yes	VERY IMPORTANT NOTE: This watershed is managed by the Vernon Forest District "as" a community watershed. There are significant opportunities to improve Kokanee spawning habitat.
136	NW Tulameen River							3		2	N	24	Yes	No	3	Yes	
162	Okanagan Lk							3		1	Y	865	Yes	Yes		No	
152	Okanagan R		3	3	3			3		3	Y	264	Yes	Yes		Yes	one of just two viable, naturally spawning sockeye runs in entire Columbia drainage
183	Oyama Ck									2	Y	1	No	Yes	2	Yes	low flow impacing fish habitat
141	Pasayten River									2	N	5	No	No	2	No	
145	Paul Creek (Merritt)										N	2	No	No	2 1	No	
164	Peachland Cr							3		2	Y	5	Yes	Yes		Yes	Key.CWS for Peachland. Fisheries Values.

206	Pennask									3	N	0	Yes	No	3	Yes	largest rainbow spawning run in N America - critical brood for Provincial stocking program
159	Penticton Ck							3		1	Y	3	Yes	Yes	3	Yes	IWAP completed 1998
166	Powers							3		2	Y	10	Yes	Yes	1	Yes	Key. CWS for Westbank.
255	Shingle Ck							2		2	Y	40	No	Yes	3	Yes	
204	Shorts Ck							2		2	N	9	No	No		No	High. Approx. 36 water licenses. Considered an "almost" CWS
155	Shuttleworth Ck									1	N	1	No	No	3	No	Severe channel disturbance from past dam failure. Recent slides. Poor instream candidate.
146	**Similkimeen River - d/s of Tulameen**			**3**						**3**	**N**	**57**	**Yes**	**Yes**	**2**	**Yes**	
140	**Similkimeen River u/s of Tulameen**									**2**	**Y**	**19**	**No**	**Yes**	**3**	**Yes**	
143	Smith Creek										N	2	No	No	3	No	
137	SW Tulameen River									2	N	7	No	No	3	No	
165	Trepanier Cr.							3	3	2	Y	36	Yes	Yes	2	Yes	Key.CWS for Peachland.
196	Trinity Ck	3	3								N	15	Yes	No	3	No	Best sites in dist. for EF. Needs SSS and TSM on east side.
163	Trout/Eneas Ck							3		3	Y	34	Yes	Yes	3	Yes	Works in progress.
147	**Tulameen River d/s of Otter Creek**									**3**	**Y**	**27**	**Yes**	**Yes**	**2**	**Yes**	
154	Vaseaux Ck			3						2	N	1	Yes	No	3	Yes	Instream work/prescriptions in progress. Channel confined by dykes on reach 1.
182	Vernon Ck							3	3	2	Y	19	Yes	Yes	3	Yes	low flow impacing fish habitat in middle reaches
138	Whipsaw Creek										N	2	No	No	2 3	No	
144	Whistle Creek										N	0	No	No	2	No	
203	Whiteman Ck							3		2	N	5	Yes	No	2	Yes	Most restoration work completed.
142	Wolfe Creek										N	12	No	No	3	No	
167											N	15	No	No	1	No	

Fraser Watershed

206	Pennask									3	N	0	Yes	No	3	Yes	largest rainbow spawning run in N America - critical brood for Provincial stocking program
159	Penticton Ck							3		1	Y	3	Yes	Yes	3	Yes	IWAP completed 1998
166	Powers							3		2	Y	10	Yes	Yes	1	Yes	Key. CWS for Westbank.
255	Shingle Ck							2		2	Y	40	No	Yes	3	Yes	
204	Shorts Ck							2		2	N	9	No	No		No	High. Approx. 36 water licenses. Considered an "almost" CWS
155	Shuttleworth Ck									1	N	1	No	No	3	No	Severe channel disturbance from past dam failure. Recent slides. Poor instream candidate.
146	**Similkimeen River - d/s of Tulameen**			**3**						**3**	**N**	**57**	**Yes**	**Yes**	**2**	**Yes**	
140	**Similkimeen River u/s of Tulameen**									**2**	**Y**	**19**	**No**	**Yes**	**3**	**Yes**	
143	Smith Creek										N	2	No	No	3	No	
137	SW Tulameen River									2	N	7	No	No	3	No	
165	Trepanier Cr.							3	3	2	Y	36	Yes	Yes	2	Yes	Key.CWS for Peachland.
196	Trinity Ck	3	3								N	15	Yes	No	3	No	Best sites in dist. for EF. Needs SSS and TSM on east side.
163	Trout/Eneas Ck							3		3	Y	34	Yes	Yes	3	Yes	Works in progress.
147	**Tulameen River d/s of Otter Creek**									**3**	**Y**	**27**	**Yes**	**Yes**	**2**	**Yes**	
154	Vaseaux Ck			3						2	N	1	Yes	No	3	Yes	Instream work/prescriptions in progress. Channel confined by dykes on reach 1.
182	Vernon Ck							3	3	2	Y	19	Yes	Yes	3	Yes	low flow impacing fish habitat in middle reaches
138	Whipsaw Creek										N	2	No	No	2 3	No	
144	Whistle Creek										N	0	No	No	2	No	
203	Whiteman Ck							3		2	N	5	Yes	No	2	Yes	Most restoration work completed.
142	Wolfe Creek										N	12	No	No	3	No	
167											N	15	No	No	1	No	

Fraser Watershed

Ref #	PROJECT (WATERSHED) NAME	Coho Species Rating (1-3)	ChinookSpecies Rating (1-3)	Sockeye Species Rating (1-3)	Steelhead Species Rating (1-3)	Bull Trout Species Rating (1-3)	Westslope Cutthroat Species Rating (1-3)	KokaneeSpecies Rating (1-3)	Burbot Species Rating (1-3)	Special Rainbow Stock Rating (1-3)	Project Includes Designated CWS (Y/N)	# domestic water licenses	Key Watershed (Fish) (Y/N)	Key Watershed (Domestic Water) (Y/N)	Development Probability (1-3)	Priority Key Watershed (Y/N)	Comments
106	Blowdown Cr										N	0	No	No	3	No	high ECA, lake headed systam, no anadramous??
108	Boulder										N	0	No	No	3	No	heavy logging of bark beetle timber, studied but no fish identified
96	Carpenter Lk				3	1					N	2	Yes	No	3	Yes	little harveting to date, hydroelectric, bull trout
98	Connell Cr	2	2		1	1					N	6	No	No	1	No	Restoration work on roads completed, bull trout access/use in lower 100m.
102	Downton Cr					1					N	0	No	No	3	No	Resident bull trout.
95	Fergusson Cr				1						Y	5	No	Yes	1	Yes	CWS with limited use, historic logging mostly greened up
86	Fountain Cr										Y	10	No	Yes	3	Yes	no forest development, large natural slide - 1st nations lands (CWS)
89	Fraser Canyon	3	3	3	3						Y	136	Yes	Yes	3	Yes	
87	French Bar				2						N	1	No	No	3	No	Falls limit access (Brookies above?) with no natural occurrences logging over last 7 years and limited restoration opportunities
107	Gott Cr										N	0	No	No	1	No	Salmon access to Watson North - Kootenay Power development
92	Gun Cr										N	68	Yes	Yes	3	Yes	limited logging - most water licenses using lake??
94	Hurley/Cadwallader				2	3					Y	13	Yes	Yes	3	Yes	Unstable ground posing threat to downstream resources - fish to the falls with upstream resident bull trout population
112	Kwoieck Cr	3	3		2	3					N	1	Yes	No	1	Yes	Heavy logging development.

101	Lost Cr				1						N	24	No	No	3	No	logging proposed for this steep drainage (none to date)
100	Lower Bridge R	3	3	3	3	2					Y	28	Yes	Yes	3	Yes	
110	Lower Cayoosh	3	3	3	2						N	4	Yes	No	3	Yes	domestic water source for town, hydroelectric development
97	McGillvery Cr	2	2		1						N	11	No	No	3	No	Falls limit access to lower 0.5km. Minor logging has occurred, domestic water supply
103	Melvin Cr										N	0	No	No	3	No	
104	Mid Cayoosh					2					N	0	No	No	1	No	High recreational use, hydroelectric development, bull trout spawning
113	Nikaia Cr										Y	2	No	Yes	1	Yes	Need to maintain and or improve water quality for d/s 1st Nations communities
84	Pavillion Cr										N	8	No	No	3	No	Heavy irrigation/domestic use dries system before confluence - no fish?
85	Sallus/Gibbs Cr's										N	6	No	No	1	No	minor logging but major fire, no identified fish issues
118	Scarped Range unit										Y	35	No	Yes	1	Yes	MOF not aware of any issues in this area - fish access limited by steep gradients
249	Seton Lk				2	2		3			Y	23	Yes	Yes	3	Yes	loging in on drainage only (see Whitecap Ck) with low overall ECA, anadramous fish, hydroelectric
116	Siska Cr				1						N	4	No	No	3	No	no forest development - domestic water supply for 1st nations
115	Siwash Cr				1						Y	13	No	Yes	1	Yes	Domestic water use - 1st nations
111	**Stein R**	**3**	**3**	**3**	**3**						**N**	**2**	**Yes**	**No**	**1**	**Yes**	**no harvesting activity but fire impacted, water supply for Lytton Band, anadramous and adfluvial fish**
109	Texas Cr	3	3	3	1						N	3	Yes	No	1	Yes	

101	Lost Cr				1						N	24	No	No	3	No	logging proposed for this steep drainage (none to date)
100	Lower Bridge R	3	3	3	3	2					Y	28	Yes	Yes	3	Yes	
110	Lower Cayoosh	3	3	3	2						N	4	Yes	No	3	Yes	domestic water source for town, hydroelectric development
97	McGillvery Cr	2	2		1						N	11	No	No	3	No	Falls limit access to lower 0.5km. Minor logging has occurred, domestic water supply
103	Melvin Cr										N	0	No	No	3	No	
104	Mid Cayoosh					2					N	0	No	No	1	No	High recreational use, hydroelectric development, bull trout spawning
113	Nikaia Cr										Y	2	No	Yes	1	Yes	Need to maintain and or improve water quality for d/s 1st Nations communities
84	Pavillion Cr										N	8	No	No	3	No	Heavy irrigation/domestic use dries system before confluence - no fish?
85	Sallus/Gibbs Cr's										N	6	No	No	1	No	minor logging but major fire, no identified fish issues
118	Scarped Range unit										Y	35	No	Yes	1	Yes	MOF not aware of any issues in this area - fish access limited by steep gradients
249	Seton Lk				2	2		3			Y	23	Yes	Yes	3	Yes	loging in on drainage only (see Whitecap Ck) with low overall ECA, anadramous fish, hydroelectric
116	Siska Cr				1						N	4	No	No	3	No	no forest development - domestic water supply for 1st nations
115	Siwash Cr				1						Y	13	No	Yes	1	Yes	Domestic water use - 1st nations
111	**Stein R**	3	3	3	3						**N**	**2**	**Yes**	**No**	1	**Yes**	**no harvesting activity but fire impacted, water supply for Lytton Band, anadramous and adfluvial fish**
109	Texas Cr	3	3	3	1						N	3	Yes	No	1	Yes	

250	Town Cr										Y	2	No	Yes	1	Yes	Lillooet Waterworks uses 100% of flow, few problems, no fish (?)
91	Tyaughton / Marshall				3						N	30	Yes	No	3	Yes	Need to reduce potential for mass wasting events (roads on unstable terrain in Mud and Noax Cks), bull trout throughout system
93	Upper Bridge R				3	3					N	0	Yes	No	3	Yes	all harvesting done under Code
105	Upper Cayoosh					2					N	0	No	No	1	No	High recreational use, hydroelectric development, bull trout spawning
88	Watson / Ward Cr's				1						N	7	No	No	3	No	Salmon in Watson (no fish in Ward?) - storage structure on Moore Lake
114	West Face										N	6	No	No	1	No	
99	Whitecap Cr	3	2		1						N	13	Yes	No	1	Yes	Limited harvesting - natural slide.
90	Yalakom R	3	3		2	3					N	9	Yes	No	3	Yes	anadramous acess to lower reaches

Columbia (Kettle) Watershed

Ref #	PROJECT (WATERSHED) NAME	Coho Species Rating (1-3)	ChinookSpecies Rating (1-3)	Sockeye Species Rating (1-3)	Steelhead Species Rating (1-3)	Bull Trout Species Rating (1-3)	Westslope Cutthroat Species Rating (1-3)	KokaneeSpecies Rating (1-3)	Burbot Species Rating (1-3)	Special Rainbow Stock Rating (1-3)	Project Includes Designated CWS (Y/N)	# domestic water licenses	Key Watershed (Fish) (Y/N)	Key Watershed (Domestic Water) (Y/N)	Development Probability (1-3)	Priority Key Watershed (Y/N)	Comments
175	Bruer/Gunner/Coalgoat										N	1	No	No	3	No	Road restoration work commenced. Good opportunity for SH.
157	Campbell/Saunier Ck									1	N	0	No	No	3	No	
158	Dale/Wilkinson Ck									1	Y	1	No	Yes	3	Yes	Minor FRBC road deactivation has occurred in SE section. Ongoing road obligation completion.
170	Damfino Ck									2	N	0	No	No	3	No	
174	Inonoaklin										N	0	No	No	1	No	
171	Mohr Creek										N	0	No	No		No	
173	Upper Kettle R									2	N	0	No	No	2 3	No	Need TSM and FFHI.

172	Upper Rendell Cr.										N	0	No	No	2	No	
169	Upper W Kettle R									2	Y	3	No	Yes	3	Yes	High. Good opportunities for restoration.

Table of Identified Watershed Issues

Identifies off target watersheds which proponents feel have other compelling reasons for their consideration (aside from fish and water values). Represent transition issues.

Watershed Name	Map #	District	Watershed Planning Unit	Proponent	Issue
Joseph/Dunn	45	Clearwater	Thompson	Tolko/Weyco	CWS applied for. Treated as CWS by district.
Wallace Creek	32	Clearwater	Thompson	Interfor	Suggested as an area that could be rehabilitated by DFO.
Bone Creek	8	Clearwater	Thompson	Slocan	Concerns due to heavy development due to primary licensee and partition licensee operating in this drainage
Hellroar Creek	9	Clearwater	Thompson	Weyco	Potential high priority upslope concerns which could let go in the short term – Contribute sediment to the N. Thompson mainstem
Mad River	30	Clearwater	Thompson	Weyco	Potential high priority upslope concerns which could let go in the short term – Contribute sediment to the N. Thompson mainstem

Recommended Research Priorities from Watershed Restoration

Although no specific discussion occurred around this topic, there remain several issues facing the region which could be used to feed development of priorities for research and business tool development. These would include:

- Completion and implementation of the Watershed Ranking Tool to aid in watershed management
- Research into cost benefit analysis for watershed restoration investments
- Research and development of techniques to speed riparian restoration specific to the Dry IDF zone.
- Research into the pest management in non-functional and functioning at risk watersheds
- Research into alternatives to fencing for livestock management in restored riparian areas
- Research into planting methods and success rates

Technical Consultation Report

Technical consultation was supported through the membership on the Thompson Okanagan Watershed Committee. Membership on the committee is based upon a sectoral representation model with representatives responsible for soliciting information and providing updates to their constituents. Industry representation was organized according to TSA while First Nations representation was assigned to Tribal Council Coordinators or designates.

In general the industry and agency representation was strong however First Nations representation was not despite repeated invitations to participate. The initial invitation list, which was for the inaugural meeting in April 1999, was quite large and included several agencies that chose not to participate. Those in attendance at the first meeting formed the initial membership with some additional members joining over the past several months. The current membership list is as follows:

Forest Industry:

Kamloops TSA	Jennifer Fraser	Tolko – Louis Creek
Merritt TSA	Bruce Beech	Tolko Merritt
Lillooet TSA	Currently Unassigned	
Okanagan TSA	Nick Kleyn	Weyerhaeuser Canada

To date additional industry representation has come from Dave Poole of Slocan Forest Products (Kamloops TSA)

First Nations:

Lillooet	Currently unassigned		Lillooet Tribal Association
Nicola	David Walkem		Nicola Tribal Association
Shuswap	Murray Ross/ Pat Matthew	Tribal Fisheries Managers	Shuswap Nation Fisheries Commission
Okanagan Tribal Association	Currently unassigned		Okanagan Tribal Association

Government Agencies/Crown Corporations

Ministry of Environment	Jim Standen (chair)	FRBC Regional Coordinator	MELP – Kamloops
Ministry of Environment	Phil Epp	WRP Specialist	MELP – Penticton
Ministry of Forests – district	Pierre Rossouw	WRP Technician	MOF – Salmon Arm
Ministry of Forests – region	Ernie Carson	WRP Regional Coordinator	MOF – Kamloops Region
Department of Fisheries and Oceans	Trisha Carlson	Habitat Restoration Engineer	DFO – Thompson Region
Forest Renewal BC	Chris Ortner	Regional Director	FRBC – Thompson Okanagan
Fisheries Renewal BC	Murray Ross/ Pat Matthew	Fisheries Biologist	Thompson Basin Fisheries Council Technical Committee
Fisheries Renewal BC	Currently unassigned		Okanagan delivery agent
BC Hydro	Currently unassigned		

Other groups:

Fraser Basin	Phil Halinan	Regional Coordinator	Fraser Basin Council

Regular monthly meetings were held, as were regular monthly conference calls. Minutes from the first several meetings were distributed widely to facilitate broad knowledge of the committee and its activities. All decisions regarding committee structure, representation, information needs and information solicitation and analysis were generally by consensus decision of the committee. This is not to say that there were not objections to broader issues of program direction, however on technical issues committee decisions resulted from committee debate and discussion.

No person was excluded from attending any meeting. Room was reserved for observers to view the process and industry licensee and Ministry of Forests personnel took up this opportunity on a couple of occasions.

The information that forms the foundation of this plan is the compilation of responses from the following groups/agencies:

Weyerhaeuser Canada
Tolko Louis Creek
Aspen Planers
Ardew Wood Products
Riverside Forests Products
Gorman Brothers Lumber
Tolko Merritt
Federated Cooperatives Ltd.
Ainsworth Lumber Co. (Savona Division)
Slocan Forest Products.
Ministry of Forests (Vernon, Salmon Arm, Merritt, Kamloops, Lillooet and Clearwater Forest Districts)
Ministry of Environment (Fisheries Section, Habitat Section, and Forest Renewal Section)
Department of Fisheries and Oceans
Shuswap Nation Fisheries Commission

Despite receiving the request for information, at the time of preparation of this report, the following groups had not responded:

Ainsworth (Lillooet Division)
Evans Forest Products
JS Jones
Tolko (Lavington Division)
Penticton Forest District
Okanagan Tribal Council
Lillooet Tribal Council
Nicola Tribal Association
International Forest Products Ltd. (Adams Lake Division)

Participant Comments

Forest Licensees

Many Licensee participants in FRBC have serious concerns about the direction indicated for guiding FRBC investments in Watershed Restoration. The present guideline of using only fish and fish passage & water quality in community watersheds to rank watershed priority is felt to be too restrictive and places little if any value on the many other resource values present in the Thompson - Okanagan Region watersheds. Of particular concern is the absence of timber values in the formula used for determining watershed priority for restoration activities and FRBC funding."

It would be simple to point out that first and foremost, the timber resource is funding FRBC and therefore the Watershed Restoration Program. However, the issue is deeper than that. It is very important that consideration be given to all other resource values in determining watershed priorities. The current direction may well cause us to ignore known watershed issues or imminent failures that are not in priority watersheds. If left untreated these issues could impact the other watershed values, downstream values, safety, and present and future timber access. The development of Regional priorities could also lead to an imbalance in funding by Management Unit, where a particular geographic area contains a disproportionate number of priority watersheds.

Licensees feel strongly that timber, wildlife, recreation, visual and archaeological values as well as the presence of imminent road and hillslope failures should be considered in addition to fish & water quality when determining priority watersheds. In addition, geographic equity must be considered in the final distribution of restoration funding. "

Ernie Carson PEng.,
WRP Regional Coordinator
MOF Kamloops Forest Region

The TOWC has provided an excellent forum for watershed restoration practitioners to see joint opportunities for restoring watersheds. By following the sectoral representation model, the committee provides opportunities for a wide range of opinions and views.

As suggested in the preceding text of this document, a clear shift to fish and water values occurred due to the current Forest Renewal BC Strategic Objectives. This current focus has not been fully endorsed by all representative members of the committee.

From the Ministry of Forests perspective, the fish and water focus is narrow and overshadows some of the key elements of holistic watershed restoration that were endorsed up until as recently as a year ago. Upslope watershed activities for multiple benefit should have been included in the current FRBC focus. Examples of upslope work that benefit the forest watershed include:

- Revegetating degraded or disturbed sites
- Re-establishing natural water patterns and restoring forest hydrology
- Stabilizing old road embankments and cutslopes
- Reducing restricted watercourses at drainage structures to reduce potential for sediment entering streams
- Stabilizing landslides and gullies in order to arrest sediment transport.

With the current focus, these activities will only be undertaken where a direct link to a fish stream or community watershed can be proven. Therefor, in many cases, holistic watershed restoration will not be achieved.

It should also be noted from this document that there are multiple funding agencies that deal specifically with fish and fish habitat restoration. Many of the fish habitat projects would be more appropriate under Fisheries Renewal, etc. Forest Renewal BC is the only funding agency that has dealt with upslope restoration. Therefore, restricting upslope forest site restoration will make it more difficult to see completed watershed restoration in the future.

Jim Standen B.Sc.
Chairman – Thompson Okanagan Watershed Committee
Forest Renewal Regional Coordinator
Ministry of Environment, Lands and Parks,
Southern Interior Region

This report is the culmination of the work of many dedicated individuals, the same individuals who have put significant effort into making the Watershed Restoration Program a success. While these individuals may disagree over the focus of the program, this was put aside in favour of developing a plan that addresses the technical issues around watershed restoration in the region. There remains however a significant body of work to be done to complete the tasks adopted by the Thompson Okanagan Watershed Committee upon whose works this plan is based.

There remain significant land use impacts identified that do not have a funding source such as Forest Renewal BC to address their "footprint". In the region agriculture remains a large destabilizing force in terms of degrading fish habitat and domestic water quality. As well, linear and urban development has also had a negative effect on many of our systems. What is still required is the completion of a comprehensive plan that builds upon the results presented here and works to build partnerships and co-funding arrangements between agencies and programs to allow for true watershed restoration to occur. This should remain as the core objective of the Committee and I hope that the committee will follow though on the development of a Regional Restoration Plan.

A lot of valuable work has been funded through the Watershed Restoration Program. We have begun the process of restoring the region's watersheds but a great deal of work remains. Thompson Coho are threatened with extinction, Fraser Sockeye stocks are declining, and Steelhead and Kokanee face continued threats from habitat degradation. Increasing demands on our water resource are matched only by development pressures on watersheds from which that water is drawn. As has been stated many times by many people, this program requires a sustained, long-term commitment to funding to ensure success. There needs to be firm agreement between agencies and partners on finding the best, most effective restoration methods and then implementing them cooperatively at the watershed level.

One of the greatest successes of the Watershed Restoration Program lays in the strengthened working relationships that have been built. Perhaps through the renewed commitment to cooperation exemplified by this plan, we truly stand to return some of our watersheds towards their historic condition and at the same time, manage future development better.

Thank you to everyone who committed his or her time to the completion of this plan.

Consultation conducted through representatives on the Thompson Okanangan Watershed Committee:

Jennifer Fraser	Tolko – Louis Creek
Alan Thorne	Interfor – Adams Lake
Bruce Beech	Tolko Industries - Merritt
Nick Kleyn	Weyerhaeuser Canada
David Walkem	Nicola Tribal Association
Murray Ross	Shuswap Nation Fisheries Commission/Thompson Basin Fisheries Council
Pat Matthew	Shuswap Nation Fisheries Commission/Thompson Basin Fisheries Council
Jim Standen(chair)	FRBC Regional Coordinator(MELP)
Phil Epp	MELP – Penticton
Pierre Rossouw	MOF – Salmon Arm FD
Ernie Carson	MOF – Kamloops Region
Trisha Carlson	Dept.of Fisheries and Oceans
Chris Ortner	FRBC Regional Director
Phil Halinan	Regional Coordinator (Fraser Basin Council)

Dates of meetings/conference calls

Inaugural Meeting	Feb 3, 1999
Thompson Basin Fisheries Council (FsRBC) meeting	March 13, 1999
All day workshop	April 26,1999
Monthly conference call	May 13,1999
Licensee/First Nations RMP presentation	June 17, 1999
Monthly meeting	June 29,1999
Monthly conference call	July 13, 1999
Monthly meeting	July 29, 1999
Monthly conference call	August 10, 1999
Monthly meeting	August 26, 1999
Monthly conference call	September 7, 1999
Monthly meeting	September 21, 1999
Regional Presentation	September 29, 1999

Potential For Future Conflicts

Despite invitations being extended to the four Tribal Associations on several occasions, First Nations representation was limited. Only the Shuswap Nation Fisheries Commission was represented on a consistent basis. Nicola Tribal Association was present at the last regular meeting prior to submission of the RMP (Sept. 21). All four Tribal Associations were sent requests for information in the same format as that provided to all licensees and agency representatives however no responses were received back from First Nations. A letter has been received from the Shuswap Nations Tribal Council indicating their satisfaction with the level of participation in the process.

Others who were invited to attend but declined include BC Hydro, Fisheries Renewal BC, and the Ministry of Fisheries.

Strengthening Sustainable Forest Management (SSFM)

Introduction

This portion of the Resource Management Plan (RMP) for the Thompson Okanagan Region of Forest Renewal BC (FRBC) examines investments as part of Strengthening Sustainable Forest Management under Strategic Objective #3 as stated below:

> "Forest Renewal BC will invest in the development of relevant, useable, timely information and tools keyed to achieving sustainable forest management."

The nature of the work that fulfils this objective is primarily inventory and related works including the associated research, tools, data and data management necessary for strategic analysis, planning and management decisions.

The SSFM component of this RMP has been developed by a committee of five members who represent a variety of interests in the management of our land based resources. In turn each of these members solicited SSFM investment information and suggestions from those stakeholders (persons, groups, agencies, ministries, First Nations, etc) they were assigned. Direct participation by every stakeholder could not realistically be accommodated. However, each committee member was tasked to ensure the interests of each stakeholder are fairly represented in relation to the biological needs of the land base versus limited available investment funding. Additional information regarding the SSFM planning committee, their representation, contacts, processes and decisions are provided in Appendix - SSFM 3A.

Purpose

The intent of the SSFM component of this RMP is to identify and prioritize investment opportunities that improve the timber supply review (TSR) and implement strategic land use plans (SLUPs) such as the Land and Resource Management Plans (LRMPs). In the RMP these investment opportunities are directed at the biological needs for land based resource analysis, planning and management decisions with FRBC works limited to the approximate funding targets provided. However, the resource management needs are presented regardless of potential funding source.

Forest Renewal will incorporate their employment, partnership and other social objectives towards the RMP proposals that are eligible for FRBC funding. Eligible works will then be prioritized for social objectives and a "Forest and Environment Investment Plan" (FEIP) will be developed for implementation of projects through stakeholders. Alternate funding sources will be sought for priority investment opportunities that are not eligible for FRBC funding.

The Process

Development of the SSFM component of the RMP is designed to be consistent with the ministries Service Agreements, the guidelines for developing RMPs (Resource Planning Framework), the guidelines for developing the SSFM component of the RMP and the "Thompson Okanagan Region Ground Rules" from FRBC. In addition, the SSFM committee is attempting to provide a realistic assessment of the issues, knowledge gaps and investment priorities that provides a fair distribution of potential funding in consideration of biological needs. Scheduling of activities over a period of years is an important component and not all works can be scheduled to commence during the first year of the plan. With these points in mind, the following is an overview of the process, procedures, assumptions and goals that the committee utilized for development and presentation of the SSFM component of the RMP.

Focus – The focus of this plan is directed at filling the highest priority inventory and data knowledge gaps as identified for improving TSR in the TSAs, implementation of LRMPs and IFPAs, and for the annual allowable cut determinations in TFLs.

Format – A short statement is provided for the identification of the issues and knowledge gaps by activity and where necessary sub-activity. This statement includes a rationale regarding recommendations and prioritization to address knowledge gaps. Recommended annual scheduling, delivery and investment levels are provided in a set of tables that are sorted by management unit, activity and priority. Where appropriate, additional scheduling and details are provided in Appendix – SSFM 3C.

Issues & Knowledge Gaps – Issues and knowledge gaps were identified through a review of deficiencies identified for TSR (including the Chief Foresters rationale statement regarding AAC determination) and those inventory related recommendations from the LRMPs and IFPAs. In addition, inventory specialists, resource managers and various stakeholders including ministries, industry and First Nations were consulted. The SSFM committee then restricted RMP presentation to those that required FRBC or alternate investment funding (as opposed to ministries in-house works by existing staff, for example), those that best meet the ministries and/or FRBCs investment principles, and those 'needed' over the next five years. Each SSFM activity eligible for FRBC funding was considered an issue.

Prioritization – Virtually every proposed investment opportunity in the SSFM tables is a high priority for filling strategic knowledge gaps. However, to provide a ranking for FRBC investments, a "relative" prioritization to the regional level in the year 2000 has been determined. These are presented as categories of Very High (VH), High (H), Moderate (M) or Not Applicable in the year 2000 (NA). Low priorities are not included. These priorities may be the consensus of the committee rather than a unanimous endorsement.

For FRBC eligible works, the VH & H categories target the "regional" SSFM investment levels identified in the Ground Rules from Forest Renewal BC. Those targets approximate the historic funding by activity and thus historic proportionate stakeholder priorities. This "relative" prioritization considers the limited funding, achievable schedules, relationships between activities, numbers of benefactors, loss of existing investments, and other similar prioritization criteria. Scheduling for the relationships between activities is an important consideration in the prioritization and changing one item may affect others. With "regional" prioritization it is likely that the VH & H priorities for FRBC works will not be proportional to available funding by management unit.

Scheduling - The scheduling of investment opportunities in the tabular summaries is designed to be realistic. However, FRBC eligible works are also constrained to funding targets by management unit in the FRBC ground rules. Only the highest priority strategic knowledge gaps required to improve the multiple-accounts analysis for TSR and implement inventory works identified in the SLUPs are scheduled for implementation in the early years of the plan.

Attempts have also been made to direct scheduling towards needed activities and sub-activities as opposed to specific sites or projects. Where supporting documentation is required and schedules have been developed, then this information is provided in Appendix – SSFM 3C.

Issues & Knowledge Gaps by Management Unit

A summary of the basic issues, knowledge gaps and inventory problems specific to each management unit is provided in Appendix – SSFM 3B. These focus on the highest priorities that need to be addressed over the next five years. A number of the issues are common to all management units. However, if associated with a particular land base they are listed with that unit rather than as Regional Issues.

Activity Specific Issues

I. Cultural Heritage Issues (TUS, AOA, AIS, Historic Trails, etc.)

There is a need throughout all TSAs to identify the location of historic sites and the historic uses of the land base and assess these in relation to their historic importance and values to cultural heritage. Failure to identify these could result in increased development costs, reduce the timber harvesting land base and resource management could be constrained. Proper site identifications and use assessments could reduce conflicts and improve management options. These are primarily aboriginal sites and uses but this activity is not restricted to those.

Priorities & Recommendations:

The levels of delivery in the tabular summaries are the very highest priorities at the minimal costs with postponement of many works as long as feasible. Delivery levels begin near historic levels in the year 2000 and annually accelerate. This is considered essential to reduce conflicts with First Nation groups. This level of delivery addresses target funding from FRBC's ground rules but will only fill the most critical knowledge gaps for TSR3. Delivery needs to be accelerated by two to three times the amount in the tabular summaries to adequately address filling these knowledge gaps. Alternate funding sources need to be found for works that are not FRBC eligible.

II. Fish and Fish Habitat Issues

Fish and fish habitat inventories provide information regarding fish species characteristics, distributions and relative abundance, as well as stream reach and lake biophysical data for interpretation of habitat sensitivity and capability for fish production. This information impacts identified wildlife, riparian management, lakes classification, fisheries management decisions and contributes to prioritization of watershed restoration works. Sufficient inventory work is needed to fill the knowledge gaps and provide adequate information for TSR, LRMP's, other strategic land use plans, habitat protection, and fisheries management.

Emphasis for the Southern Interior Region has been on the application of the Reconnaissance (1:20,000) Inventory in stream habitats for the purpose of providing general fish distributions for Forest Practices Code issues. Although the stream inventory component of the reconnaissance method is still important, increased attention to inventories of rare and endangered fish species (red and blue listed species) and their habitats, as well as lake inventories are now required. Inventory work is needed in these two areas, as well as some maintenance of ongoing and new stream inventories. It should be noted that although Red and Blue, Lake and Stream Inventory are discussed below, these programs can be combined and implemented through 1 project or incorporated into existing future inventory plans.

1) Red and Blue Species Inventory

Red and blue, refers to fish species that are currently recognized on the Conservation Data Center's list of endangered (red) and threatened (blue) species. In the Southern Interior Region, the red and blue grouping will also include fish species indicated in the Managing Identified Wildlife guidebook (bull trout), as well as regionally significant fish species. More detailed species level work is required to determine distribution, life history timing, habitat requirements and population status, particularly for endangered and threatened fish species.

Priorities and Recommendations:

Red and blue species inventory is a very high priority in each TSA. The tabular summaries indicate some of the most critical species and watersheds for study, but the lists are by no means comprehensive or definitive. Bull trout and cutthroat trout systems are probably the most critical systems for 2000/2001. However, systems containing white sturgeon, umatilla dace, chiselmouth, brassy minnow, speckled dace, mountain sucker, mottled sculpin, shorthead sculpin also require attention.

2) **Lake Inventory - Reconnaissance 1:20,000**

The lake inventory is a component of the full Reconnaissance Fish and Fish Habitat Inventory methodology. This inventory is intended to provide information regarding fish species characteristics, distributions and relative abundance, as well as stream reach (from lake tributaries) and lake biophysical data for interpretation of habitat sensitivity and capability for fish production. Lake inventory is a particularly useful tool for clarification of downstream fish distribution, documentation recreational uses, and classification of the lake for resource management. In the past, lakes have generally been surveyed as a separate activity from the stream inventory.

Priorities and Recommendations:

Lakes classification processes in the Kamloops TSA are almost complete, however, the Kamloops LRMP indicates that lakes will be assessed for their stocking potential. There are still many lakes in the Kamloops LRMP for which this objective still has to be met. Very little lake inventory has been done in the Lillooet TSA. However, the Lillooet LRMP has noted that there is a need to gather information on the access, recreation value and fish status of small lakes in the TSA, particularly those at high elevation that are believed to contain wild rainbow stocks.

3) **Stream Inventory - Reconnaissance 1:20,000**

This inventory is intended to provide information regarding fish species characteristics, distributions and relative abundance, as well as stream reach and lake biophysical data for interpretation of habitat sensitivity and capability for fish production. The products of the reconnaissance inventory include watershed base mapping (1:20,000) showing known fish species presence and predicted distribution, lake characteristics, stream reach boundaries and characteristics, channel classification, and location and characteristics of obstructions. Products of reconnaissance surveys are suitable for:

- initial riparian management area (RMA) classification for forest development planning and watershed restoration (using observed and predicted fish distributions and channel widths);
- establishment of some landscape level biodiversity objectives;
- identifying potential locations of fisheries sensitive zones and other critical and sensitive aquatic and riparian habitats; and.
- development of fish and fish habitat modelling.

Priorities and Recommendations:

The Reconnaissance (1:20,000) Fish and Fish Habitat Inventory is best applied to watersheds where little to moderate fisheries information currently exists for the area of interest and can provide useful data for other FRBC activities such as WRP-IWAP's, FHAP's, or CAP's. In particular, a fish and fish habitat inventory provides a logical precursor to the FHAP.

The planning component of the inventory should include both lakes and streams (i.e.: the entire watershed should be planned). The field implementation , data entry and report write-up of the project can then choose to implement only the stream components of the inventory, although as noted above, the stream inventory can easily incorporate lake inventory into as existing or future project.

III. Forest Health Issues

Basic information on unsalvaged losses and forest health reductions are available for the MAA. However, these need substantial improvement. Biotic reductions such as insects & diseases need to be significantly improved and abiotic reductions such as blowdown or snow damage are almost as significant. These net-downs reduce growth, decrease yields and influence other decisions of resource management. A proper and reliable evaluation of these losses is required for the Multiple Accounts Analysis and for determining strategic direction in the planning processes. The annual overview of pests is an on-going work that needs to continue for identification of pest problems and reductions. Needs have been identified to address the forest health of young stands (after free growing) and to quantify pest losses in the sub-alpine fir ecosystems. The issues regarding the knowledge gaps around root rots and other diseases, their losses, growth reductions and management implications is an ongoing problem that needs considerably more work.

Priorities & Recommendations:

The scheduling provided in the tabular summaries is directed at FRBC eligible works that are currently not funded except through FRBC. The priorities are directed at known problems having a significant TSR impact or are identified under the LRMP or the MAA process as needing improvement. Maintaining the annual overview assessment is given as a regional issue while the insects, diseases and abiotic damage is addressed under the applicable management units.

IV. Growth & Yield Issues (G&Y, PSPs, SIBEC, MSYTs, OAFs, etc)

The G&Y component into the Multiple Accounts Analysis provides information on how the quantity, quality and composition of our forest changes over time. The future composition of the forest in-turn affects many strategic decisions regarding management of the land base including; biodiversity, old growth, wildlife habitat, harvesting volumes and values, green-up, visual aesthetics, etc. Most G&Y data is obtained through field sampling and this information is then used for calibrations to computer models and analysis tools. Failure to maintain existing data such as Permanent Sample Plots (PSPs) and to improve or localize other data such as Operational Adjustment Factors (OAFs) can have significant impacts on TSR decisions and implementation of LRMP decisions.

Sub-Issue:

Remeasurement of PSPs for G&Y

The remeasurement of Growth & Yield Permanent Sample Plots is a basic building block of the G&Y program and impacts all management units and stakeholders. Thus this is considered a regional issue rather than specific to a management unit. These samples are the backbone data for projecting future forest stands in the Multiple Accounts Analysis and due to their remeasurement cycles are considered an ongoing project. Establishment of any new PSPs presupposes that remeasurement will be conducted.

Priorities & Recommendations:

It is recommended that FRBC set aside sufficient annual funding to allow remeasurement of these PSPs. A single proponent can be designated as lead proponent for delivery if necessary. As an alternative, all licensees in the Thompson Okanagan region of FRBC can contribute to the remeasurement of PSPs proportional to their AAC and again a single lead proponent can be determined. Most of the IFPA and Management components of the SSFM program and even the remainder of the G&Y programs cannot be supported to the exclusion of PSP remeasurement.

Sub-Issue:

Southern Interior Growth & Yield Cooperative (SIGY)

A separate planning process is currently underway in the southern interior through SIGY to analyse and prioritize the Growth & Yield needs in this portion of British Columbia. This process is supported by the SSFM committee and recommends that the results of this analysis be used in the RMP process for approving G&Y works under the FEIP. The recommendations from SIGY are expected to be available in time for FEIP development and will almost assuredly be available in time for initial implementation in the year 2000. Potential G&Y works being considered include PSP establishment, Growth Intercept, OAFs, Prognosis, SIBEC, site index works, and 'volume & decay' works.

Priorities & Recommendations:

It is recommended that all G&Y works in all TSAs be prioritized and implemented consistent with the forthcoming recommendations from SIGY. The only exceptions would be G&Y works "in progress" such as assorted 'non-applicable' IFPA works, PSP remeasurements and works identified for determination of AAC on TFLs. All 'new' work proposals being addressed by SIGY will be listed as "delayed" under the status column pending the outcome of this analysis. However, the five-year scheduling in the tabular summaries will provide very rough estimates of anticipated annual needs for G&Y but are subject to revision when the SIGY estimates are available. These rough estimates will consider management unit needs for G&Y in relation to other works but not the specific G&Y works to be addressed. As a last note, it is recommended that SIGY be included as a partner for delivery of any 'new' G&Y works.

V. Recreation and Visual Landscape Issues

A variety of recreation and visual landscape inventories are utilized in the Multiple Accounts Analysis. These impact the available landbase, harvesting constraints and management decisions. The Visual Quality Objectives (VQOs), lakes, features, trails, opportunity spectrum and other recreation inventories are all at issue. Most of the basic information for these has been compiled but most will soon require review and updates.

Priorities & Recommendations:

The works proposed in the SSFM tabular summaries addresses the higher priorities for filling LRMP gaps and upgrading works. Works are targeted that have significant impacts on other resource uses or have strategic planning implications. A number of works are not listed and can wait for delivery in consideration of limited investment funding and other priorities. However, after some of these other priorities are completed, those unlisted works should be considered but will be prioritized at that time.

VI. Terrestrial Ecosystem Mapping Issues (TEM, PEM, BEC Revisions)

TEM provides an ecological framework for land management that integrates and displays biological and environmental conditions on a single map. These have tremendous interpretive values and are used for a broad spectrum of strategic and operational activities including wildlife, forestry, range, recreation and hydrology. TEM is based on the Biogeoclimatic Ecosystem Classification (BEC) which is also used for site index correlation, analysing yields and planning silviculture activities. The first regional mapping of BEC information was completed in 1990. Since then inconsistencies and gaps have been identified and a project is in progress to make modifications and revisions to this original work.

Priorities & Recommendations:

Since so much subsequent work depends on reliable BEC classification, priority needs to be placed on completion of the revisions that are in progress. The BEC revisions are a regional project and should be targeted for completion no later than 2002. New TEM or PEM projects should be limited until such time as the BEC revisions are complete and a regionally prioritized plan has been developed to guide in implementation and standards for these projects. Works in progress, partially completed or of very high priority should continue.

VII. Terrain Stability Mapping Issues (TSM)

Unstable and potentially unstable areas need to be assessed and mapped. This information contributes to the determination of the operable land base, contributes to management decisions, upgrades ESA data and has links to other works including watershed restoration, water quality, fisheries, harvesting, etc. A significant amount of this work has been completed in the region.

Priorities & Recommendations:
Priority should be given to Level C (detailed TSM – DTSM) mapping of areas with steep and complex terrain, especially those areas being considered for harvesting or other development. Priorities should also be placed where TSM information is needed for links to watershed restoration works. Level D (reconnaissance TSM – RTSM) is lower priority and should be targeted on large areas of gentle terrain with fewer potential land-use conflicts. Level D works can be delayed in favour of higher priority works as necessary.

VIII. Vegetation Inventory Issues (VRI)

The Vegetation Resources Inventory consists of two phases. Phase 1 is the classification and mapping of the forest cover and other vegetation attributes. This is the basic inventory that provides the location, quantity and extent of the resources mapped in relation to ground features such as roads, creeks, etc. Phase 2 is the sampling and auditing phase of the inventory. The sampling gathers additional information on the largely photo-interpreted classification and this data is used as an audit to adjust growth, volume, decay and other interpreted values. Reliable VRI is the starting point for the MAA in the TSR and LRMPs.

Sub-Issue:
Phase 1 – Classification & Mapping
Except in the Okanagan TSA, the forest cover classification and mapping throughout the region is currently "adequate" to address most TSR and LRMP needs. Improvements are needed and inventories should be brought up to VRI standards throughout the region. However, in view of the limited investment funds and other priorities, this work will have to wait. However, in the Okanagan the forest cover inventory dates back to the early 1970's and the other vegetation information has not been determined. This information is not considered reliable for the purposes it is being used for.

Priorities & Recommendations:
Very high priority is placed on obtaining Phase 1 VRI for the Okanagan TSA prior to the next TSR. However, Phase 1 forest cover mapping is only 40% eligible for FRBC funding with the other 60% being required through alternate funding sources. Attempts are being made to secure the additional funding for this investment with results unknown at this time. For the tabular summaries this work will be included (by funding source) with the realization that adjustments may have to be made.

Sub-Issue:
Phase 2 – Sampling & Audits
Localized sampling and audit adjustments are an on-going priority for TSR and other resource implications arising out of the LRMPs. Particularly as information becomes more outdated and forest types change over time, the use of Phase 2 sampling becomes an increasing priority.

Priorities & Recommendations:
Over the next five years it is recommended that Phase 2 sampling be directed towards localized tracts of land where specific problems are anticipated OR towards specific forest cover types or attributes believed to have problems. The initial assessment of these needs is provided in the tabular summaries. Additional analysis and scheduling should be conducted to improve this prioritization of where to invest Phase 2 funding.

IX. Water Inventory Issues

1) Water Quality Monitoring Issues

The possible impact of timber harvesting activities on water quality and flow regimes of streams in designated community watersheds is a major and continuing concern. Despite sometimes considerable resource extraction occurring in those watersheds, there has been virtually none of the kind of monitoring necessary to determine the state of water quality before development occurred and little monitoring done to determine the effect of that development. The specific purpose of this activity is to assemble sufficient water quality data to characterize existing conditions and establish water quality objectives in designated community watersheds and other environmentally sensitive watersheds. Emphasis is placed on watersheds with significant timber resources and where harvesting may occur within the foreseeable future.

Priorities & Recommendations:
To properly assess current conditions and establish water quality objectives, samples must be collected for a three year period. Water quality is highly variable over time and space and three years of data are necessary to capture as much of the variation as possible regarding activities related to timber harvesting and the ones of interest for human consumption. A needs analysis prepared in 1996 ranked the requirement for monitoring based on reliance for potable water supply and planned timber harvesting activities. Priority was given to community watersheds subject to planned timber harvesting developments.

Water quality monitoring is currently underway in 44 watersheds in the SIR and most are designated as community watersheds. There are automated monitors collecting continuous data in 21 of the watersheds being monitored. Very high (VH) priority has been given to maintaining all on-going monitoring projects for the requisite three year period, following which the data will be used to provide an assessment of water quality and to establish water quality objectives.

2) Hydrometric Monitoring Issues

Hydrometric and climate monitoring provides baseline information on peak flows, low flows, runoff (monthly and annual), precipitation (monthly, annual and intensity) and other climatological factors. This information is required to evaluate the environmental impacts of forest harvesting, plan forest infrastructure development and provide baseline information to support higher level plans and the Timber Supply Reviews. At present, adequate hydrological and climate information is generally not available. This activity proposes to establish hydrometric/climate-monitoring stations that represent the full range of hydrologic zones, elevation and catchment size throughout the Southern Interior Region. Collection of data from representative watersheds can be used to infer flow and climate conditions at other sites with similar characteristics. A strategically situated network will provide baseline information on a regional basis and will allow land use and forestry planners to extrapolate the data to sites without monitoring stations.

Priorities & Recommendations:
A needs analysis prepared in 1997 identified gaps in the regional hydrometric and climate station network. Of the fifty watersheds proposed for hydrometric monitoring and twenty-five climate stations, the consultant recommended twenty-four of the hydrometric/climate stations and ten of the climate-only stations be considered high priority for implementation (ranked A-1 and A-2 in the needs analysis). As of 1999, only six of the A-1 and A-2 hydrometric stations and none of the climate stations have been installed. Very high (VH) priority has been given to maintaining the existing six hydrometric stations. High priority (H) has been given to installing the remaining A-1 and A-2 hydrometric stations and climate stations where no AES station exists in close proximity.

3) Stream Temperature Monitoring Issues

An important resource stewardship objective is to maintain the natural water temperature regimes in high value fish streams in the region. It is well known that removal of riparian vegetation causes water temperatures to rise, with the result of stress and mortality of fish and other aquatic organisms. The Southern Interior Region includes some of the hottest sub-climates in the Province, notably those in the south Okanagan-Similkameen, Merritt and south Thompson areas. Timber harvesting in these temperature sensitive regions can present a significant risk to aquatic life.

Priorities & Recommendations:
Stream temperature monitoring projects are recommended in watersheds known to experience elevated water temperatures during summer low flow. Very high (VH) priority is given for continuation of stream temperature monitoring projects in the Spius, Nicola and Siska/Mowhocam watersheds.

X. Wildlife and Wildlife Habitat Issues

The wildlife and wildlife habitat inventories provide information about the distribution, status and abundance of wildlife as well as relevant information regarding resource management decisions and the impact these decisions have on wildlife. This information has impacts on wood availability, harvesting patterns, wildlife tree requirements, threatened or endangered species management, riparian reserves, wildlife corridors, biodiversity, etc. Failure to fill the scheduled knowledge gaps could result in the loss or damage to habitat and potentially species.

Priorities & Recommendations:

In the tabular summaries, priorities and scheduling are directed towards species and locations with known high values and higher potential conflict concerns. If addition investment funding were available, additional knowledge gaps could be addressed. However, projects have been limited to a realistic delivery under the limitations imposed. TEM mapping is an important tool for wildlife inventories. To fully utilize this tool it is recommended that the BEC revisions be completed as soon as possible.

XI. Provincial and Research Issues

Provincial inventory issues provide information related to broader provincial scope management efforts. Examples of such efforts includes updating of ownership information for TSR processes, VRI delivery and potential cost sharing initiatives. Research can be identified through recommendations by strategic planning processes or through identification by other activity specific issues.

The research component of this RMP did not identify any additional research requirements specific to a strategic decision making process, (e.g., regarding caribou habitat needs in a TSA), to be incorporated into this document. All issues are being addressed through the identification of priority inventories. There are no research projects that need to be redirected to the appropriate channels for administration under the FRBC Research Program.

Summary of Tabular Presentations

Following are two tables that provide an overview of the recommendations in the tabular summaries. These show the recommended works that have been identified as VH or H in the "relative" prioritization by management unit and activity for the year 2000.

It should be noted that often delivery of works were simply delayed a year or so rather than show a relative priority of 'moderate'. This is particularly true in the Lillooet TSA where funding identified in the ground rules is totally inadequate to address needs. The SSFM problems and issues are not necessarily proportional to AAC in a TSA. In addition, moderate SSFM priorities in the year 2000 should be considered for delivery instead of lower priority works in another program. The moderate prioritization is only "relative" to the other inventory priorities but could be the same as a 'high' priority under another program.

Following is a summary of the recommendations in the SSFM portion of the RMP.

SSFM By Management Unit for the Year 2000

Mgt.Unit	Recommended (VH-H)	Additional (M priority)*	Alternate Funding
	(FRBC eligible)	(FRBC eligible)	(not FRBC eligible)
Region	$360,000	$123,000	$0
Kamloops IFPA**	$590,000	$0	$0
Kamloops TSA	$1,932,400	$811,000	$190,000
Lillooet TSA	$493,000	$271,500	$50,000
Merritt IFPA**	$1,654,490	$0	$0
Merritt TSA	$1,114,600	$190,000	$45,000
Okanagan TSA	$1,944,500	$85,000	$652,000
ALL TFLs	$934,400	$0	$0
Totals	$9,023,390	$1,480,500	$937,000

* Many works 'delayed' rather than shown as moderate priority.

** Only the SSFM component of IFPA works are included in this section of the RMP.

Regional SSFM ground rule targets for TSAs & IFPAs = $8,088,924 plus $863,400 identified under TFLs = $8,952,324.

SSFM By Activity for the Year 2000

Basic Activity	TFL's	IFPA's	TSA's VH-H	Recommended Sum	Added M Priorities
Cultural Heritage	$10,000	$229,590	$329,000	$568,590	$30,000
Forest Health	$0	$38,000	$197,000	$235,000	$71,000
Fish & Habitat	$0	$122,460	$1,300,000	$1,422,460	$0
G&Y	$571,400	$697,530	$517,000	$1,785,930	$197,000
Rec. Inv.	$0	$0	$30,000	$30,000	$30,000
Rec. Visual	$0	$0	$87,000	$87,000	$0
TEM	$160,000	$254,740	$150,000	$564,740	$80,000
TSM	$123,000	$0	$731,000	$854,000	$455,000
TSR / LRMP	$0	$0	$301,000	$301,000	$375,000
VRI	$20,000	$228,167	$585,500	$833,667	$150,000
Water	$0	$60,615	$763,000	$823,615	$92,500
Wildlife	$0	$361,435	$854,000	$1,215,435	$0
Misc.	$50,000	$251,953	$0	$301,953	$0
Totals	**$934,400**	**$2,244,490**	**$5,844,500**	**$9,023,390**	**$1,480,500**

Tabular Schedules, Recommendations and Priorities

In the following tabular summaries are presented the consolidated schedules, recommendations and priorities of the SSFM committee. These tables are sorted into management unit, activity, priority and FRBC eligibility. Since priorities are time sensitive, the 'relative' priorities do not pertain to dates later than the year 2000. The sum of the VH & H relative priorities approximates the historic funding levels provided as targets in the FRBC ground rules. While management unit investment levels are constrained over time by FRBC, it should be noted that investments by activity will constantly change over time as priority works are completed and other needs increase in priority.

Scheduling has attempted to equitably distribute investments over a number of years while still targeting the filling of knowledge gaps for the next TSR and meeting LRMP commitments. However, some works will need increased investment levels over time, while some will decrease over time, and yet others have annual variability that cannot be rescheduled. The currently listed VH-H priorities usually decrease over the five year period but the moderate priorities and works not scheduled to be implemented in year 2000 generally increase over that period to take the place of works being completed. This scheduling is inter-active and changing one item can affect another.

Following are the tabular summaries of the SSFM component of this RMP.

SSFM Tabular Summaries											
	Strengthening Sustainable Forest Management						Five Year Schedule				
Stratetic Decision Location	Issue	Knowledge Gap	Specific Work Targets	FRBC Eligible	Yr 2000 Status	Yr 2000 Priority	Year 2000/01	Year 2001/02	Year 2002/03	Year 2003/04	Year 2004/05
(Mgt. Unit)	(Activity)	(Sub-Activity)	(Short Description)		(Ongoing?)	(Category)	($$'s)	($$'s)	($$'s)	($$'s)	($$'s)
Regional - Eligible - VH-H											
ALL - Reg	FH	Annual Overview	Annual FH overview flight, planning & mapping	Y	Ongoing	VH	$80,000	$80,000	$80,000	$80,000	$80,000
ALL - Reg	G&Y	PSPs	Remeasure G&Y PSPs	Y	Ongoing	VH	$130,000	$275,000	$432,000	$224,000	$170,000
ALL - Reg	TEM	BEC Revisions	Regional BEC revisions under TEM	Y	Ongoing	VH	$150,000	$183,000	$160,000	$0	$0
					Subtotal		$360,000	$538,000	$672,000	$304,000	$250,000
Regional - Eligible - M-NA											
ALL - Reg	FH	Annual Overview	Annual FH overview flight, planning & mapping	Y	Ongoing	M	$21,000	$21,000	$21,000	$21,000	$21,000
ALL - Reg	G&Y	PSPs	Remeasure G&Y PSPs, Additional needs	Y	Ongoing	M	$22,000	$49,000	$76,000	$40,000	$25,000
ALL - Reg	TEM	BEC Revisions	Regional BEC revisions, GIS & additional needs	Y	Ongoing	M	$50,000	$43,000	$60,000	$80,000	$0

ALL - Reg	TEM	TEM Strategy	Compare products, develops TEM plan	Y	New	M	$30,000	$10,000	$0	$0	$0
ALL - Reg	Cultural Heritage	AIS	Independant Bands	Y	New	.NA	$0	$0	$50,000	$50,000	$25,000
					Subtotal		$123,000	$123,000	$207,000	$191,000	$71,000
Kamloops IFPA- SSFM - Eligible											
IFPA-K	Analysis	Models	Prep for TSR &Spatial analysis of constraints	Y	Ongoing	.NA	$0	$0	$20,000	$60,000	$0
IFPA-K	FH	Models	Forest health modeling	Y	New	.NA	$0	$0	$30,000	$0	$0
IFPA-K	Fish	Enhance	Enhancement & rare fish species	Y	New	.NA	$0	$45,000	$50,000	$48,000	$30,000
IFPA-K	G&Y	Managed Stands	GIS Silviculture records & MSYTs	Y	New	.NA	$40,000	$0	$0	$30,000	$0
IFPA-K	G&Y	OAFs	OAFs for MSYTs	Y	Delayed	.NA	$15,000	$45,000	$0	$0	$0
IFPA-K	G&Y	PSPs	Prog review, estab in managed stands & monitoring.	Y	Delayed	.NA	$75,000	$65,000	$70,000	$60,000	$0
IFPA-K	G&Y	SIBEC	Sampling	Y	Delayed	.NA	$175,000	$0	$0	$0	$0
IFPA-K	G&Y	Stem Analysis	ICH & young stands anal. & modeling	Y	Delayed	.NA	$60,000	$80,000	$57,000	$0	$0
IFPA-K	Planning	Developmt	Extension Services & work with ministries	Y	New	.NA	$0	$20,000	$15,000	$0	$20,000
IFPA-K	Planning	Inventory	Review & strategic plans for each inventory	Y	Ongoing	.NA	$25,000	$25,000	$25,000	$25,000	$40,000
IFPA-K	Recreation	Visual	Viewscape design modeling	Y	New	.NA	$0	$0	$0	$20,000	$40,000
IFPA-K	Studies	Tools & models	IRM, TELSA, green-up, products	Y	Ongoing	.NA	$80,000	$30,000	$30,000	$60,000	$30,000
IFPA-K	TEM	BEC	BGC linework, OGMA, &	Y	Ongoing	.NA	$0	$0	$0	$25,000	$0

			biodiversity								
IFPA-K	VRI	NVAF	Net Volume Adjustment Factors - tree sampling	Y	Ongoing	.NA	$5,000	$20,000	$0	$0	$0
IFPA-K	VRI	Phase 1	FC map adjust., history, maps & database	Y	New	.NA	$45,000	$50,000	$100,000	$0	$0
IFPA-K	VRI	Phase 2	Within Polygon Variation (WPV) sampling	Y	Ongoing	.NA	$0	$25,000	$0	$0	$0
IFPA-K	Water	Quality	Hydrologic-fish-water quality overview	Y	Ongoing	.NA	$30,000	$25,000	$0	$0	$0
IFPA-K	Wildlife	Enhance	Wildlife enhancement & habitat modeling	Y	New	.NA	$20,000	$60,000	$0	$0	$50,000
IFPA-K	Wildlife	Plans / Habitat	Habitat field work & plans	Y	Ongoing	.NA	$20,000	$20,000	$20,000	$0	$0
					Subtotal		$590,000	$510,000	$417,000	$328,000	$210,000
Kamloops TSA - Eligible VH-H											
Kamloops	Cultural Heritage	AOA	Kamloops TSA	Y	Follow-up	VH	$20,000	$0	$25,000	$0	$25,000
Kamloops	FH	Root Disease	Hazard & Risk assess and existing severity.	Y	New	VH	$20,000	$20,000	$30,000	$35,000	$35,000
Kamloops	FH	Young Stand Pests	Severity & incidence of pests in young stands.	Y	New	H	$10,000	$10,000	$10,000	$20,000	$20,000
Kamloops	Fish	Lake Inventory - Recon	1:20,000 to Support LRMP objectives	Y	Ongoing	VH	$140,000	$123,000	$122,000	$119,000	$119,000
Kamloops	Fish	R&B Species Inventory	Bull Trout, regionally significant fish species	Y	New	VH	$196,000	$173,000	$171,000	$167,000	$167,000

Kamloops	Fish	Stream Inventory - Recon	1:20,000 Reconnaisance, mostly as per licensees plans	Y	Ongoing	H	$252,000	$222,000	$220,000	$214,000	$214,000
Kamloops	G&Y	SIGY	Priorities thru SIGY (estimates of $$s)	Y	Delayed	H	$200,000	$200,000	$275,000	$300,000	$300,000
Kamloops	Rec/Visual	inventory / analysis	Analysis, map updates, & major corridors	Y	New	VH	$20.000	$33,000	$43,000	$43,000	$43,000
Kamloops	TSM	Level C or D	To fill TSM mapping gaps	Y	New	H	$166,000	$130,000	$120,000	$100,000	$0
Kamloops	TSR / LRMP	Access	Update/correct District road file	Y	New	H	$30,000	$30,000	$30,000	$0	$0
Kamloops	TSR / LRMP	Harvest Constraints	Replace minimum harvest age with Ht/DBH	Y	New	H	$50,000	$50,000	$0	$0	$0
Kamloops	TSR / LRMP	Operability	Update / Replace operability lines	Y	New	H	$50,000	$60,000	$60,000	$0	$0
Kamloops	VRI	Phase 1	Vegetation Retro-fit to include veg. Info.	Y	Ongoing	H	$150,000	$150,000	$150,000	$0	$0
Kamloops	Water	Baseline water quality	WQ objectives in 8 community watersheds	Y	Ongoing	VH	$122,000	$97,500	$29,000	$16,000	$16,000
Kamloops	Water	Climate	Reactivate 3 MoF climate stations	Y	New	H	$5,000	$5,000	$5,000	$5,000	$5,000
Kamloops	Water	Hydrometric	Operate 3 hydrometric stations	Y	Ongoing	VH	$26,400	$26,500	$26,500	$26,500	$26,500
Kamloops	Water	Hydrometric	Install and operate 4 hydrometric stations	Y	New	H	$60,000	$49,500	$58,500	$35,500	$35,500
Kamloops	Wildlife	Habitat mapping	Biodiversity Modelling (Skull)	Y	Ongoing	VH	$100,000	$50,000	$0	$0	$100,000
Kamloops	Wildlife	Habitat mapping	GBMU habitat mapping by 2003	Y	Ongoing	VH	$60,000	$40,000	$0	$0	$0

Kamloops	Wildlife	Habitat mapping	Deer Winter Range	Y	Ongoing	H	$40,000	$0	$30,000	$0	$0
Kamloops	Wildlife	Habitat mapping	PEM	Y	Ongoing	H	$50,000	$50,000	$0	$0	$0
Kamloops	Wildlife	Wildlife Inventory	Snake Inventory, top-up	Y	Ongoing	H	$15,000	$15,000	$0	$0	$0
Kamloops	Wildlife	Wildlife Inventory	Caribou Inventory and Habitat mapping by 2003	Y	Ongoing	VH	$150,000	$150,000	$150,000	$100,000	$0
					Subtotal		$1,932,400	$1,684,500	$1,555,000	$1,181,000	$1,106,000
Kamloops TSA - Eligible - M-NA											
Kamloops	Cultural Heritage	AIS	Shuswap Nation Tribal	Y	New	.NA	$0	$25,000	$75,000	$75,000	$50,000
Kamloops	Cultural Heritage	AIS	Little Shuswap	Y	Follow-up	.NA	$0	$25,000	$0	$25,000	$0
Kamloops	FH	Sub-alpine fir pests	Mortality estimates.	Y	New	M	$10,000	$10,000	$10,000	$10,000	$10,000
Kamloops	G&Y	SIGY	Top-up Priorities thru SIGY (estimates of $$s)	Y	Delayed	M	$75,000	$150,000	$150,000	$150,000	$150,000
Kamloops	Rec Inv	Rec Inv	Inv. Trails & GIS map SW of Kamloops	Y	New	M	$30,000	$0	$0	$0	$0
Kamloops	Rec/Visual	Design	Visual Rehab	Y	New	.NA	$0	$6,000	$6,000	$6,000	$6,000
Kamloops	Rec/Visual	Vis. Eff. Assess	Field Inspections & VQOs Updated	Y	New	.NA	$0	$12,000	$12,000	$12,000	$12,000
Kamloops	TEM	TEM/PEM	Coordinated TEM/PEM under approved plan.	Y	New	.NA	$0	$25,000	$75,000	$150,000	$200,000
Kamloops	TSM	Level C& D	Top-up to fill TSM mapping gaps	Y	New	M	$80,000	$180,000	$150,000	$150,000	$70,000

Kamloops	TSR / LRMP	Imagery	satellite imagery or air photography	Y	New	M	$200,000	$0	$0	$0	$0
Kamloops	TSR / LRMP	Imagery	Ortho Photography, diapositives, digital files	Y	New	M	$175,000	$0	$175,000	$0	$175,000
Kamloops	VRI	Phase 1	Top-up Vegetation Retro-fit to include veg. Info.	Y	Ongoing	M	$150,000	$100,000	$50,000	$0	$0
Kamloops	VRI	Phase II	170 SAMPLES	Y	New	.NA	$0	$50,000	$75,000	$75,000	$0
Kamloops	VRI	NVAF	60 TREES	Y	New	.NA	$0	$0	$0	$20,000	$0
Kamloops	Water	Climate	Install 2 climate stations	Y	New	.NA	$0	$0	$17,000	$0	$0
Kamloops	Water	Climate	Install 1 climate stations at Upper Finn hydrometric stations	Y	New	.NA	$0	$0	$8,000	$0	$0
Kamloops	Water	Hydrometric	Install and operate 3 hydrometric stations in A-3, A-4 and A-5 watersheds	Y	New	M	$91,000	$27,000	$27,000	$27,000	$27,000
Kamloops	Wildlife	Habitat mapping	Goshawk Inventory	Y	New	.NA	$0	$30,000	$30,000	$30,000	$30,000
Kamloops	Wildlife	Habitat mapping	Moose Winter Range	Y	New	.NA	$0	$40,000	$40,000	$0	$0
Kamloops	Wildlife	Habitat mapping	Mtn Goat Winter Range	Y	New	.NA	$0	$0	$40,000	$40,000	$40,000
Kamloops	Wildlife	Habitat mapping	Identified Plants and Plant Communities	Y	New	.NA	$0	$0	$25,000	$25,000	$25,000
Kamloops	Wildlife	Wildlife Inventory	Medium Carnivore Inventory	Y	New	.NA	$0	$25,000	$0	$0	$0
					Subtotal		$811,000	$705,000	$965,000	$795,000	$795,000

Kamloops TSA - Alternate Funding											
Kamloops	IU	History	Inventory update	N	Ongoing	H	$45,000	$45,000	$45,000	$45,000	$45,000
Kamloops	Cultural Heritage	TUS	Bonaparte/Skeetchesn	N	Follow-up	VH	$15,000	$15,000	$0	$0	$100,000
Kamloops	Cultural Heritage	TUS	Neskonlith/Adams Lake Indian Band	N	Follow-up	VH	$20,000	$25,000	$25,000	$50,000	$0
Kamloops	Cultural Heritage	TUS	Kamloops Indian Band	N	Follow-up	.NA	$0	$10,000	$50,000	$0	$0
Kamloops	Cultural Heritage	TUS	North Thompson Indian Band	N	Follow-up	.NA	$0	$25,000	$0	$0	$25,000
Kamloops	Cultural Heritage	TUS	Whispering Pines	N	New	.NA	$0	$0	$0	$0	$100,000
Kamloops	Wildlife	Wildlife Inventory	Sharptailed Grouse Inventory	.NA	Ongoing	.NA	$30,000	$30,000	$0	$0	$30,000
Kamloops	Wildlife	Wildlife Inventory	Badger Study	.NA	Ongoing	.NA	$50,000	$50,000	$50,000	$0	$0
Kamloops	Wildlife	Wildlife Inventory	Snake Inventory	.NA	Ongoing	.NA	$30,000	$30,000	$0	$0	$0
					Subtotal		$190,000	$230,000	$170,000	$95,000	$300,000
Lillooet TSA - Eligible - VH-H											
Lillooet	Cultural Heritage	AIS	Lillooet Tribal Council	Y	New	VH	$50,000	$75,000	$75,000	$75,000	$75,000
Lillooet	Cultural Heritage	Trails Mapping	Locate and document pre contact trails networks	Y	New	VH	$50,000	$75,000	$75,000	$85,000	$0
Lillooet	FH	Root Disease	Hazard & Risk assess and existing severity.	Y	New	VH	$19,000	$25,000	$30,000	$35,000	$35,000

Lillooet	Fish	Stream Inventory - Recon	1:20,000 Reconnaisance, mostly as per licensees plans	Y	Ongoing	H	$84,000	$94,000	$94,000	$94,000	$0
Lillooet	Rec. Inv.	Lakes	Complete lakes inventory for recreation.	Y	New	H	$30,000	$50,000	$50,000	$0	$0
Lillooet	Rec/Visual	inventory / analysis	Various lakes and creeks	Y	New	VH	$13,000	$14,000	$13,000	$13,000	$13,000
Lillooet	TSM	Level C&D	To fill TSM mapping gaps	Y	New	H	$135,000	$100,000	$100,000	$0	$0
Lillooet	TSR / LRMP	Access	Access plans for areas identified by LRMP	Y	New	H	$10,000	$10,000	$0	$0	$0
Lillooet	TSR / LRMP	Unsalvaged losses	Data base on pests, WTPs, volumes, high stumps , etc.	Y	New	H	$15,000	$15,000	$15,000	$15,000	$15,000
Lillooet	Water	Baseline water quality	WQ objectives in 4 community watersheds	Y	Ongoing	VH	$38,000	$46,000	$43,000	$13,000	$13,000
Lillooet	Wildlife	Wildlife Inventory	Spotted Owl Inventory	Y	Ongoing	VH	$32,000	$50,000	$50,000	$60,000	$0
Lillooet	Wildlife	Wildlife Inventory	Tailed Frog/Mtn Beaver	Y	Ongoing	H	$17,000	$30,000	$30,000	$0	$0
					Subtotal		$493,000	$584,000	$575,000	$390,000	$151,000
Lillooet TSA - Eligible - M-NA											
Lillooet	Cultural Heritage	AIS	NNTC	Y	New	.NA	$0	$0	$0	$75,000	$100,000
Lillooet	FH	Sub-alpine fir pests	Mortality estimates.	Y	New	M	$10,000	$10,000	$0	$0	$0
Lillooet	FH	Young Stand Pests	Severity & incidence of pests in young stands.	Y	New	M	$10,000	$10,000	$10,000	$10,000	$10,000

Lillooet	Fish	Lake Inventory - Recon	High Alpine wild rainbow stocks; support LRMP objectives	Y	New	.NA	$0	$63,000	$55,000	$55,000	$55,000
Lillooet	Fish	R&B Species Inventory	Bull Trout, Steelhead, regionally significant, CDC species in Bridge, Seton, Fraser Rivers	Y	New	.NA	$0	$88,000	$77,000	$77,000	$77,000
Lillooet	G&Y	VDYP etc thru SIGY	Priorities thru SIGY (estimates of $$s)	Y	Delayed	M	$100,000	$125,000	$225,000	$300,000	$300,000
Lillooet	Rec/Visual	Design	Visual Rehab	Y	New	.NA	$0	$4,000	$4,000	$4,000	$4,000
Lillooet	Rec/Visual	Vis. Eff. Assess	Field Inspections of VQOs	Y	New	.NA	$0	$10,000	$10,000	$10,000	$10,000
Lillooet	TEM	For Wildlife	For habitat assessment & mapping (links to BEC).	Y	New	.NA	$0	$0	$100,000	$150,000	$150,000
Lillooet	TEM	TEM/PEM	Coordinated TEM/PEM under approved plan.	Y	New	.NA	$0	$5,000	$55,000	$100,000	$150,000
Lillooet	TSM	Level C&D	To fill TSM mapping gaps	Y	New	M	$150,000	$100,000	$50,000	$0	$0
Lillooet	TSR / LRMP	Planning	Impacts of LRMP on Timber Supply	Y	New	.NA	$0	$20,000	$0	$0	$0
Lillooet	Water	Climate	Reactivate 1 MoF climate stations	Y	New	M	$1,500	$1,500	$1,500	$1,500	$1,500
Lillooet	Water	Climate	Install climate station at Cottonwood Creek	Y	New	.NA	$0	$8,000	$0	$0	$0
Lillooet	Water	Climate	Install 2 climate stations at A-3, A-4 & A-5 hydrometric stations	Y	New	.NA	$0	$0	$16,500	$16,500	$16,500

Lillooet	Water	Hydrometric	install and operate 3 hydrometric stations	Y	New	.NA	$0	$32,000	$68,500	$26,500	$26,500
Lillooet	Water	Hydrometric	Install and operate 1 hydrometric stations in A-3, A-4 and A-5 watersheds	Y	New	.NA	$0	$0	$64,500	$17,500	$17,500
Lillooet	Wildlife	Habitat mapping	Deer Winter Range	Y	New	.NA	$0	$40,000	$0	$30,000	$0
Lillooet	Wildlife	Habitat mapping	GBMU habitat mapping for LRMP	Y	New	.NA	$0	$40,000	$40,000	$0	$0
Lillooet	Wildlife	Habitat mapping	Goshawk Inventory	Y	New	.NA	$0	$0	$0	$30,000	$30,000
Lillooet	Wildlife	Habitat mapping	Flammulated Owl Model	Y	New	.NA	$0	$15,000	$25,000	$0	$0
Lillooet	Wildlife	Habitat mapping	Mtn Goat Winter Range	Y	New	.NA	$0	$0	$40,000	$40,000	$40,000
Lillooet	Wildlife	Wildlife Inventory	Grizzly Bear Inventory	Y	New	.NA	$0	$0	$100,000	$50,000	$50,000
Lillooet	Wildlife	Wildlife Inventory	Snake Inventory	Y	New	.NA	$0	$30,000	$30,000	$0	$0
Lillooet	Wildlife	Wildlife Inventory	Medium Carnivore Inventory	Y	New	.NA	$0	$0	$25,000	$0	$0
					Subtotal		$271,500	$601,500	$997,000	$993,000	$1,038,000
Lillooet TSA - Alternate Funding											
Lillooet	Cultural Heritage	TUS	Fraser Canyon Tribal	N	New	.NA	$0	$0	$0	$75,000	$75,000
Lillooet	Cultural Heritage	TUS	Lillooet Tribal Council	N	New	VH	$50,000	$75,000	$75,000	$0	$0
					Subtotal		$50,000	$75,000	$75,000	$75,000	$75,000

Merritt IFPA- SSFM - Eligible											
IFPA-M	Cultural Heritage	Archeology	Knowledge tables & programs	Y	Ongoing	.NA	$229,590	$229,590	$229,590	$229,590	$229,590
IFPA-M	FH	For. Health	Various projects.	Y	New	.NA	$38,000	$25,000	$50,000	$50,000	$50,000
IFPA-M	Fish	Fish & fish habitat	Inventory, rehab and analysis	Y	New	.NA	$122,460	$122,460	$122,460	$86,943	$868,431
IFPA-M	G&Y	SIGY	VDYPs, MSYTs, PSPs, etc (priorities thru SIGY)	Y	Delayed	.NA	$332,530	$380,268	$320,531	$355,268	$181,582
IFPA-M	Other	Other	Communications, TSR Analysis, Oth Inv., etc.	Y	New	.NA	$146,953	$311,249	$502,303	$601,606	$274,508
IFPA-M	TEM	TEM - PEM	Various projects.	Y	New	.NA	$254,740	$173,686	$115,791	$57,895	$115,791
IFPA-M	VRI	Veg Inv	Various projects.	Y	New	.NA	$178,167	$173,686	$138,949	$57,895	$57,895
IFPA-M	Water	Water Q&Q	Various projects.	Y	Ongoing	.NA	$30,615	$30,615	$30,615	$30,615	$30,615
IFPA-M	Wildlife	W&W Hab.	Surveys, modeling, monitoring, biodiv., Etc	Y	New	.NA	$321,435	$289,477	$277,898	$289,477	$182,359
					Subtotal		$1,654,490	$1,736,031	$1,788,137	$1,759,289	$1,990,771
Merritt TSA - Eligible - VH-H											
Merritt	Cultural Heritage	AIS	Nicola Tribal Assn	Y	Follow-up	H	$20,000	$25,000	$50,000	$75,000	$50,000
Merritt	Cultural Heritage	AIS	Upper Nicola IB	Y	Follow-up	H	$24,000	$50,000	$50,000	$26,000	
Merritt	FH	Root Disease	Hazard & Risk assess and existing severity.	Y	New	VH	$15,000	$20,000	$30,000	$35,000	$35,000
Merritt	FH	Study	Assess effectiveness of salvage & NRLs.	Y	New	H	$10,000	$0	$0	$0	$0

Merritt	FH	Young Stand Pests	Severity & incidence of pests in young stands.	Y	New	H	$10,000	$10,000	$10,000	$10,000	$10,000
Merritt	Fish	Lake Inventory - Recon	1:20,000 Recon to Support Lakes Classification	Y	Ongoing	H	$104,000	$100,000	$100,000	$100,000	$0
Merritt	Fish	R&B Species Inventory	Bull Trout, regionally significant, CDC species in Nicola Rivers	Y	New	VH	$145,000	$140,000	$140,000	$140,000	$0
Merritt	Fish	Stream Inventory - Recon	1:20,000 Reconnaisance, mostly as per licensees plans	Y	Ongoing	H	$187,000	$180,000	$180,000	$180,000	$0
Merritt	Rec/Visual	inventory / analysis	Various corridors	Y	New	VH	$8,000	$17,000	$17,000	$17,000	$17,000
Merritt	TSM	Level C&D	To fill TSM mapping gaps	Y	New	H	$140,000	$120,000	$120,000	$0	$0
Merritt	TSR	Biodiversity	Old growth for OGMA's	Y	New	VH	$22,000	$0	$0	$0	$0
Merritt	TSR	ESA's	Evaluate ESAs to TSR, TSM watersheds, etc.	Y	New	H	$12,000	$0	$0	$0	$0
Merritt	TSR	Riparian Areas	Assess riparian TSR impacts & decid mgt along buffers.	Y	New	VH	$9,000	$20,000	$0	$0	$0
Merritt	TSR	Thresholds for watersheds	Perform ReCAP's and determine thresholds for watersheds.	Y	New	H	$40,000	$50,000	$10,000	$0	$0
Merritt	Water	Baseline water quality	WQobjectives in 4 community watersheds	Y	Ongoing	VH	$49,000	$30,000	$13,500	$10,500	$4,000

Merritt	Water	Climate	Reactivate 2 MoF climate stations	Y	New	H	$3,000	$3,500	$3,500	$3,500	$3,500
Merritt	Water	Hydrometric	Operate 1 hydrometric station	Y	Ongoing	VH	$10,000	$10,500	$10,500	$10,500	$10,500
Merritt	Water	Stream Temp.	Spius stream temperature monitoring	Y	Ongoing	VH	$49,600	$49,500	$49,500	$0	$0
Merritt	Water	Stream Temp.	Nicola/Coldwater stream temperature monitoring	Y	New	H	$27,000	$27,500	$27,500	$0	$0
Merritt	Wildlife	Habitat mapping	GBMU habitat mapping for LRMP	Y	Ongoing	VH	$40,000	$40,000	$0	$0	$0
Merritt	Wildlife	Wildlife Inventory	Spotted Owl Inventory	Y	Ongoing	VH	$40,000	$40,000	$40,000	$40,000	$0
Merritt	Wildlife	Wildlife Inventory	Elk Inventory	Y	Ongoing	H	$150,000	$150,000	$200,000	$0	$0
					Subtotal		$1,114,600	$1,083,000	$1,051,500	$647,500	$130,000
Merritt TSA - Eligible - M-NA											
Merritt	Cultural Heritage	AIS	Merritt TSA	Y	New	M	$30,000	$30,000	$60,000	$100,000	$150,000
Merritt	FH	Sub-alpine fir pests	Mortality estimates.	Y	New	M	$10,000	$10,000	$10,000	$10,000	$10,000
Merritt	Rec/Visual	Design	Visual Rehab	Y	New	.NA	$0	$6,000	$6,000	$6,000	$6,000
Merritt	Rec/Visual	Vis. Eff. Assess	Field Inspections of VQOs	Y	New	.NA	$0	$11,000	$11,000	$11,000	$11,000
Merritt	TSM	Level C&D	To fill TSM mapping gaps	Y	New	M	$150,000	$200,000	$200,000	$200,000	$150,000
Merritt	TSR	Access	Road & Ldg. database plus densities & prod. by harvest system.	Y	New	.NA	$0	$10,000	$0	$0	$20,000
Merritt	TSR	Harvest Constraints	Assess NRLs for tree & block reserves	Y	New	.NA	$0	$7,000	$15,000	$0	$0

Merritt	TSR	Harvest Constraints	Minimum Harvest Age review & update.	Y	New	.NA	$0	$15,000	$0	$0	$0
Merritt	TSR	Silviculture	Assess & recommend re cattle damaged planting.	Y	New	.NA	$0	$15,000	$0	$0	$0
Merritt	TSR	Silviculture	Assess impact of incremental Silviculture	Y	New	.NA	$0	$20,000	$0	$20,000	$0
Merritt	Water	Climate	Install climate station at Siwash Creek	Y	New	.NA	$0	$8,000	$0	$0	$0
Merritt	Water	Hydrometric	Install and operate 1 hydrometric stations in A-3, A-4 and A-5 watersheds	Y	New	.NA	$0	$32,000	$9,000	$9,000	$9,000
Merritt	Wildlife	Habitat mapping	Biodiversity Modelling	Y	New	.NA	$0	$100,000	$50,000	$0	$0
Merritt	Wildlife	Wildlife Inventory	Grizzly Bear Inventory	Y	New	.NA	$0	$0	$100,000	$100,000	$50,000
Merritt	Wildlife	Wildlife Inventory	Medium Carnivore Inventory	Y	New	.NA	$0	$0	$0	$25,000	$0
Merritt	Water	Climate	Install climate stations at Kwinshatin hydrometric stations	Y	New	.NA	$0	$0	$8,000		
					Subtotal		$190,000	$464,000	$469,000	$481,000	$406,000
Merritt TSA - Alternate Funding											
Merritt	Cultural Heritage	TUS	Nicola Tribal Assn	N	Follow-up	H	$15,000	$15,000	$0	$0	$0
Merritt	Cultural Heritage	TUS	Upper Nicola I.B.	N	New	H	$30,000	$30,000	$30,000	$30,000	$0
					Subtotal		$45,000	$45,000	$30,000	$30,000	$0

Okanagan TSA - Eligible - VH-H											
Okanagan	Cultural Heritage	AIS	Okanagan Nation Alliance	Y	New	VH	$50,000	$50,000	$50,000	$0	$0
Okanagan	Cultural Heritage	AIS	Okanagan Indian Band	Y	New	H	$65,000	$50,000	$50,000	$25,000	$20,000
Okanagan	Cultural Heritage	AIS	Lower Similkameen	Y	New	H	$50,000	$50,000	$50,000	$35,000	$20,000
Okanagan	FH	Root Disease	Hazard & Risk assess and existing severity.	Y	New	VH	$20,000	$25,000	$30,000	$35,000	$35,000
Okanagan	FH	Young Stand Pests	Severity & incidence of pests in young stands.	Y	New	H	$13,000	$13,000	$10,000	$10,000	$10,000
Okanagan	Fish	Lake Inventory - Recon	Support Lakes Classification; LMRP objectives for lakes not known at this time	Y	Ongoing	VH	$46,000	$27,000	$27,000	$27,000	$0
Okanagan	Fish	R&B Species Inventory	Bull Trout, CDC species in Okanagan, Similkameen Rivers	Y	New	VH	$64,000	$37,000	$37,000	$37,000	$0
Okanagan	Fish	Stream Inventory - Recon	1:20,000 Reconnaisance, mostly as per licensees plans	Y	Ongoing	H	$82,000	$48,000	$48,000	$48,000	$0
Okanagan	G&Y	SIGY	Priorities thru SIGY (estimates of $$s)	Y	Delayed	H	$187,000	$250,000	$300,000	$350,000	$400,000
Okanagan	Rec/Visual	inventory / analysis	Analysis, VQO update, RMZ & small lakes	Y	New	VH	$46,000	$50,000	$50,000	$60,000	$60,000
Okanagan	TSM	Level C&D	To fill TSM mapping gaps	Y	New	H	$290,000	$250,000	$150,000	$130,000	$50,000

Okanagan	TSR / LRMP	Roads	Mapping & part of LRMP road risk rating.	Y	New	VH	$55,000	$55,000	$0	$0	$0
Okanagan	TSR / LRMP	Weed Inv	DPE Weed Inventory for prevention	Y	New	H	$8,000	$8,000	$8,000	$8,000	$8,000
Okanagan	VRI	Phase 1	Phase 1 Reinventory - FRBC Portion	Y	New	VH	$435,500	$477,000	$478,000	$0	$0
Okanagan	Water	Baseline water quality	WQ objectives in 24 community watersheds	Y	Ongoing	VH	$310,000	$215,000	$112,000	$83,500	$73,000
Okanagan	Water	Baseline water quality	Comprehensive assessment of water quality in Mission Creek	Y	New	H	$19,000	$19,000	$19,000	$6,500	$0
Okanagan	Water	Climate	Reactivate 4 MoF climate stations	Y	New	H	$7,000	$7,000	$6,000	$6,000	$6,000
Okanagan	Water	Hydrometric	Operate 2 hydrometric stations	Y	Ongoing	VH	$20,000	$20,000	$20,000	$20,000	$20,000
Okanagan	Water	Stream Temp.	Stream temperature monitoring in Upper Nicola	Y	Ongoing	VH	$17,000	$17,000	$16,000	$0	$0
Okanagan	Wildlife	Habitat mapping	Deer Winter Range	Y	Ongoing	H	$40,000	$0	$30,000	$0	$0
Okanagan	Wildlife	Habitat mapping	White-headed Woodpecker Habitat Inventory	Y	New	H	$15,000	$15,000	$15,000	$0	$0
Okanagan	Wildlife	Wildlife Inventory	Williamsons Sapsucker Inventory	Y	New	VH	$30,000	$30,000	$30,000	$0	$0
Okanagan	Wildlife	Wildlife Inventory	Caribou Inventory and Habitat mapping by 2003	Y	Ongoing	VH	$50,000	$50,000	$50,000	$25,000	$0

Okanagan	Wildlife	Wildlife Inventory	Medium Carnivore Inventory	Y	New	H	$25,000	$0	$0	$0	$0
					Subtotal		$1,944,500	$1,763,000	$1,586,000	$906,000	$702,000
Okanagan TSA - Eligible - M-NA											
Okanagan	Cultural Heritage	AOA	Okanagan TSA	Y	Follow-up	.NA	$0	$25,000	$0	$25,000	$0
Okanagan	FH	Sub-alpine fir pests	Mortality estimates.	Y	New	M	$10,000	$10,000	$10,000	$10,000	$10,000
Okanagan	Rec/Visual	Design	Visual Rehab	Y	New	.NA	$0	$20,000	$20,000	$20,000	$20,000
Okanagan	Rec/Visual	Vis. Eff. Assess	Field inspections of VQOs	Y	New	.NA	$0	$19,000	$19,000	$19,000	$19,000
Okanagan	TEM	TEM/PEM	Coordinated TEM/PEM under approved plan.	Y	New	.NA	$0	$25,000	$75,000	$150,000	$200,000
Okanagan	TSM	Level C&D	To fill TSM mapping gaps	Y	New	M	$75,000	$100,000	$150,000	$75,000	$25,000
Okanagan	VRI	NVAF	60 TREES	Y	New	.NA	$0	$0	$0	$20,000	$0
Okanagan	VRI	Phase II	80 SAMPLES	Y	New	.NA	$0	$25,000	$25,000	$50,000	$0
Okanagan	Water	Climate	Install 1 climate stations at A-3, A-4 & A-5 hydrometric stations	Y	New	.NA	$0	$0	$8,000	$0	$0
Okanagan	Water	Hydrometric	Install and operate 3 hydrometric stations in A-3, A-4 and A-5 watersheds	Y	New	.NA	$0	$95,500	$26,500	$26,500	$26,500
Okanagan	Wildlife	Habitat mapping	GBMU habitat mapping for LRMP	Y	New	.NA	$0	$60,000	$60,000	$0	$0

Okanagan	Wildlife	Habitat mapping	Goshawk Inventory	Y	New	.NA	$0	$0	$30,000	$30,000	$30,000
Okanagan	Wildlife	Habitat mapping	Flammulated Owl Model & Inventory	Y	New	.NA	$0	$15,000	$25,000	$0	$0
Okanagan	Wildlife	Habitat mapping	Moose Winter Range	Y	New	.NA	$0	$40,000	$40,000	$0	$0
Okanagan	Wildlife	Habitat mapping	Mtn Goat Winter Range	Y	New	.NA	$0	$0	$40,000	$40,000	$40,000
Okanagan	Wildlife	Wildlife Inventory	Snake Inventory	Y	New	.NA	$0	$0	$30,000	$30,000	$0
Okanagan	Wildlife	Habitat mapping	Identified Plants and Plant Communities	Y	New	.NA	$0	$0	$25,000	$25,000	$25,000
					Subtotal		$85,000	$434,500	$583,500	$520,500	$395,500
Okanagan TSA - Alternate Funding											
Okanagan	Cultural Heritage	TUS	Okanagan Indian Band	N	New	.NA	$0	$25,000	$50,000	$50,000	$50,000
Okanagan	Cultural Heritage	TUS	Lower Similkameen	N	New	.NA	$0	$25,000	$50,000	$50,000	$50,000
Okanagan	Cultural Heritage	TUS	Spallumcheen Band	N	New	.NA	$0	$30,000	$30,000	$25,000	$25,000
Okanagan	VRI	Phase 1	Phase 1 Reinventory - MOF Portion	N	New	VH	$652,000	$655,000	$657,000	$0	$0
					Subtotal		$652,000	$735,000	$787,000	$125,000	$125,000
TFL - Eligible - ALL											
TFL 15	G&Y	SIAP (SIBEC)	Complete in time to input into next TSR	Y	New	VH	$120,000	$40,000	$40,000	$0	$0
TFL 15	VRI	Phase II	Complete in time to input into next TSR	Y	New	H	$10,000	$150,000	$150,000	$0	$0
TFL 18	G&Y	PSPs	Establish new PSPs	Y	Delayed	NA	$32,400	$32,400	$0	$0	$0

TFL 18	TEM	For Wildlife & SIBEC	For habitat assessment, site index information & mapping (links to BEC).	Y	Ongoing	H	$120,000	$120,000	$120,000	$0	$0
TFL 18	VRI	Phase 1	Replace outdated Forest Cover maps	Y	New	H	$0	$40,000	$100,000	$0	$0
TFL 33	G&Y	PSPs	New PSPs for MSYTs	Y	Delayed	H	$10,000	$15,000	$5,000	$10,000	$10,000
TFL 33	VRI	Phase 1 & 2	Begin VRI. Planning year 1, Phase 1 year 2, Timber VRI year 3.	Y	New	H	$10,000	$30,000	$30,000	$10,000	$0
TFL 35	G&Y	PSPs	Evaluate/Remeasure/Establish	Y	Delayed	H	$35,000	$35,000	$35,000	$35,000	$35,000
TFL 35	G&Y	G&Y	G&Y Analysis of Age Class 1 - 3 Stands	Y	Delayed	H	$124,000	$192,000	$192,000	$192,000	$192,000
TFL 35	TEM	BGC Rev	TFL TEM Enhancements	Y	New	H	$40,000	$0	$0	$0	$0
TFL 49	Cultural Heritage	AIS	New works for resolving FN issues.	Y	Ongoing	VH	$10,000	$20,000	$20,000	$20,000	$20,000
TFL 49	Cultural Heritage	AIS	New works for resolving FN issues.	Y	NEW	H	$0	$50,000	$50,000	$50,000	$50,000
TFL 49	Extension	Demo	Cost shared demo work	Y	Ongoing	H	$50,000	$0	$0	$0	$0
TFL 49	G&Y	ELDAR	Productivity then Site Series mapping	Y	Ongoing	VH	$250,000	$0	$0	$0	$0
TFL 49	G&Y	Models	Early growth model for Pl, Sx, Fd	Y	Ongoing	.NA	$0	$150,000	$0	$0	$0
TFL 49	G&Y	OAFs	OAF work for local applicability for MYSTs.	Y	New	.NA	$0	$40,000	$0	$0	$0
TFL 49	G&Y	PSPs	Gap analysis & strategic plan (work to follow)	Y	New	.NA	$0	$20,000	$0	$0	$0

TFL 49	Planning	Access	Road & structure inventory for long term land base reductions.	Y	New	.NA	$0	$10,000	$0	$0	$0
TFL 49	TSM	Level C	Continue work in progress	Y	Ongoing	VH	$53,000	$0	$0	$0	$0
TFL 49	TSM	Level C	Continue work in progress	Y	Ongoing	H	$70,000	$60,000	$60,000	$0	$0
TFL 49	VRI	Phase 2	Confirm adequacy of inventory	Y	New	.NA	$0	$5,000	$0	$0	$0
TFL 49	Wildlife	Riparian	Complete a riparian inventory	Y	New	.NA	$0	$20,000	$0	$0	$0
					Subtotal		$934,400	$1,029,400	$802,000	$317,000	$307,000

Appendix – SSFM 3A

Consultation Process and Contacts

Each member of the SSFM committee was assigned to represent stakeholders in the Resource Management Planning process. This member was tasked with ensuring that stakeholder input for their area of responsibility was obtained during the information gathering process and that legitimate comments were considered during the review of the plan. Committee members and their contacts are provided below.

SSFM Committee Member	Representing	Contact Names	Contact Info
Nick Kleyn	ILMA/Industry Issues	FRBC Lead Proponents	MYAs & TFLs
		Paul Christensen	Ainsworth Lumber
		Bruce Hampton	Ardew Wood Products
		Jerry Canuel	Aspen Planners
		Doug Nelson	Evans Forest Products
		Jeff Lipsett	Federated Co-operatives – TFL 33
		Randy Hardy	Gorman Brothers
		Alan Thorne	Interfore – Kam IFPA
		Gary Aikens	J.S. Jones Timber
		Dave Burge, etc.	Riverside Forest Prod. – TFL - 49
		Rowina Bryan	Slocan Forest Products – TFL 18
		Kim Young, Jennifer Fraser, Will Sloan	Tolko Industries
		Nick Kleyn	Weyerhaeuser Canada – TFL 15 & 35
Steve Schell	Forest Renewal BC & Aboriginal Issues	FRBC and various Aboriginal organisations	Implementing Partners & FRBC eligibility & Ground Rules.
		Dr. Charlene Higgins & Dave Monture	Shuswap Nation Tribal Council

SSFM Committee Member	Representing	Contact Names	Contact Info
		Rob Hutton	Okan Inter-Tribal Natural Resource Concl.
		Chief David Walkem	Nicola Valley Tribal Council
		Noel Haynes	Administration – Lytton
		Loretta Eustache	Spallumcheen Band
Phil Whitfield	LRMP Issues including Persons & Groups involved in the LRMPs	Persons & Groups too numerous to list.	Input primarily through the LRMP documents rather than direct contact.
Ron Newman	Ministry of Forests Issues	MOF Districts and Regional Specialists	Primarily for Stewardship Concerns
	Dist.	Bill Lougheed	Clearwater Dist.
	Dist.	Ken Chantler	Kamloops Dist.
	Dist.	Linda Sapinsky	Salmon Arm Dist.
	Dist.	Bob Gray	Vernon Dist.
	Dist.	Laverne Cormier	Penticton Dist.
	Dist.	Rich Hodson	Merritt Dist.
	Dist.	Dave Horne	Lillooet Dist.
	Regional Specialist	Bob Macdonald	G&Y
	Regional Specialist	Lloyd Wilson	VRI – Phase 2
	Regional Specialist	Jim Grace	VRI – Phase 1
	Regional Specialist	Dennis Lloyd	TEM/PEM/BEC
	Regional Specialist	Tim Giles	TSM
	Regional Specialist	Lorraine Maclaughlin	FH – Insects
	Regional Specialist	Adrian Mehrler	FH – Disease
	Regional Specialist	Mike Blackstock	Cultural Heritage
	Regional Specialist	Dan Peterson	TSR / MAA
	Regional Specialist	Bernie Ivanco	Recreation
	Regional Specialist	Peter Rennie	Visual Landscape

SSFM Committee Member	Representing	Contact Names	Contact Info
Mike Burwash	Ministry of Environ., Lands & Parks	MELP Districts and Regional Specialists	Primarily for Stewardship Concerns
	Dist.	Randy Harris	Clearwater Dist.
	Dist.	Phil Holman	Kamloops Dist.
	Dist.	Jeff Morgan	Salmon Arm Dist.
	Dist.	Brian Robertson	Vernon Dist.
	Dist.	Grant Furness	Penticton Dist.
	Dist.	Allison Chutter	Merritt Dist.
	Dist.	Donna Romaine	Lillooet Dist.
	Regional Specialist	Mel Maxnuk	Water Quality/Quantity
	Regional Specialist	David Tesch	Fish & Fish Habitat
	Regional Specialist	Michael Burwash	Wildlife & W. Habitat

SSFM – Meeting Dates

July 27, 1999	
August 3, 1999	
August 10, 1999	
August 17, 1999	Dr. Charlene Higgins attended for FN issues. Mike Burwash not in attendance.
August 24, 1999	
August 31, 1999	Steve Schell not in attendance
September 21, 1999	

Appendix – SSFM – 3B

Issues by Management Unit

For AAC determination in the TSR and implementation of LRMP recommendations, each TSA, TFL and IFPA have a different set of issues, knowledge gaps and priorities to address those needs. In addition, there are issues and gaps that affect all stakeholders in the Thompson Okanagan and are regional in nature. Other issues have regional 'significance' but if it was possible to assign to a particular management unit, the issue was listed with that unit. The following is a quick overview of the highest priority strategic knowledge gaps that should be addressed over the next five years.

Regional Issues

Information used in the Multiple Accounts Analysis (MAA) for TSR is virtually the same as the MAA information used for the LRMPs. Specialists working with the MAA indicate that virtually all the inventory information used in this process can be 'improved'. However, based on sensitivity, impacts, etc., under the limited available funding the relative priorities for improving this data are as follows.

1. Land Base Inclusions or Reductions – info that affects land based inclusions, reductions or deductions (ESAs, PFTs, TSM, riparian reserves, old growth retention, etc);

2. Growth &Yield Issues – info that affects the future resource quantity, quality or timing (G&Y, deferrals, volume estimates, yield tables, site index, green-up, etc); and

3. Management Issues – info that affects resource management knowledge gaps and operations (models, constraints, water stations, etc).

   This general prioritization provides guidance to addressing regional and TSA issues for TSR & LRMPs.

Three works have been identified that are regional in nature. These are not specific to a management unit, need to be addressed over the next five years and equally benefit all proponents. The three issues that are regional in nature are:

- Continuation of the forest health overview assessments,
- BEC revisions under TEM throughout the region, and
- PSP remeasurements under the G&Y program and the G&Y linkage to recommendations thru SIGY.

It is recommended that investments in these are through the annual funding OR all MYA's provide equitable financial contributions towards these works. It is recommended that delivery be through a single proponent rather than proponents from each TSA.

TFL Issues

Within each TFL, inventory works to address AAC determination and LRMP needs are best identified by the holder of the TFL. The issues and knowledge gaps vary by TFL. A short review of the specifics by TFL is as follows.

TFL	Program / Issue	Specifics
TFL 15	G&Y	A need to complete the SIBEC (SIAP) which is built upon the TEM.
TFL 15	VRI	A need to continue with and complete Phase 2 of VRI.
TFL 15	VRI/G&Y	A detailed inventory of small Pl stands (Stk Class 4) needs to be completed and better G&Y info on these provided.
TFL 18	TEM/Wildlife/G&Y	Follow-up work needed for wildlife & SIBEC on TEM work nearing completion.
TFL 18	VRI	VRI work needed but may not be ranked as priority due to expense & cost sharing issues.
TFL 18	G&Y	G&Y info is in need of update & development of new tools.
TFL 33	G&Y	Need for improved G&Y tools particularly for juvenile stands (pre & post FTG).
TFL 33	G&Y	OGSI (old growth site index) work needed to substantiate current AAC determinations.
TFL 33	VRI	Phase 1 work needed and few if any of the original inventory plots occur on the TFL.
TFL 35	G&Y	G&Y info is in need of update and development of new tools.
TFL 35	G&Y	Critical need for G&Y tools for post-harvest regenerated stands.
TFL 35	TSM	TSM results have added costs due to larger than necessary Class IV & V or P and U polygons resulting from conservative photo line work and subsequent mapping.
TFL 49	Planning	A need for an overall strategic level planning tool to guide ALL enhancement activities on the TFL (i.e.: a means to prioritize between activities & programs with limited funding).
TFL 49	G&Y	G&Y info needs improvement and particularly the OGSI, growth intercept & analysis tools for juvenile stands.

IFPA Issues

The Thompson Okanagan Region currently has two Provincial Pilot programs in progress under the "Innovative Forest Practices Agreements" (IFPA's). One of the major requirements of an IFPA is to produce a Forestry Plan in accordance with section 59.1 of the Forest Act. The goal is to provide 'strategic' direction and investigate innovative works that may potentially result in an increase in harvest levels. The IFPA priorities are reviewed and approved by the MOF Regional Manager.

The objectives and issues surrounding an IFPA are slightly different than those under this Resource Management Plan. In addition, the IFPA in the Kamloops TSA only covers a licensee operating area (portion of the TSA) while the IFPA in the Merritt TSA is for the entire TSA. These differences in land base create additional differences in issues to be addressed.

For this RMP, the IFPA in the Kamloops TSA is included in the tabular summaries. Although IFPA priorities are not given, it is expected that the 'needs' for work under the IFPA program will be weighed in consideration of other TSA needs and works will be equitably targeted to the ground rules funding levels.

The IFPA in the Merritt TSA addresses the whole TSA. That forestry plan is still being developed, and the potential level of funding for that IFPA has not been finalized. The ground rule target funding may not be applicable in this case. For those reasons, the tabular summaries do not include all the Merritt IFPA works being considered. Instead, the RMP identifies the issues and associated work priorities in the Merritt TSA. It is expected that these will be will be addressed through the IFPA where applicable to those objectives, or through the MYAs where works are eligible for FRBC funding but do not address IFPA objectives.

TSA Issues

Following is a summary of the basic issues, knowledge gaps or inventory problems specific to the Kamloops, Lillooet, Merritt or Okanagan TSAs. These focus on the highest priorities that need to be addressed over the next five years. A number of the issues are common to all TSAs but being specific to that land base are not listed as Regional Issues. However they are shown as "common to all TSAs". It should also be noted that within a TSA the relative priorities to address and schedule delivery of SSFM works would likely be different than the regional prioritization.

TSA Issues To Be Addressed

Program / Issue	**Sub-Issue / Activity**	**Specifics**
Common to ALL TSAs		
Cultural Heritage	AOAs, AISs, TUSs	Additional works are needed ASAP but funds are limited. Failure to address many of these needs will likely impact wood flow and other resource uses.
Forest Health	Root Disease	A need to provide an assessment of the hazards & risks for root rot infestations and map current severity.
Forest Health	Pest in Young Stands	A need to provide information on the severity & incidence of pests in young stands with links to the G&Y info.
Forest Health	Sub-alpine fir pests	A need to provide mortality estimates for non-recoverable losses and assist with management.
G&Y	SIGY	G&Y info is in need of update and new tools and delivery needs to be prioritized and scheduled. Recommend this be linked to work being done thru SIGY.
Recreation	Visual Quality	Visual inventories, analysis, map updates, VQOs, etc need updating or are needed for major corridors, lakes, etc., as identified for each TSA.
Recreation	Inventories	Improvements are needed to most recreation inventories. However, in view of other priorities most can wait a while.
TEM	TEM/PEM/BEC	Ongoing works need completing and new works need to be implemented. However, many works are being delayed pending completion of the BEC revisions.
TSM	Level C & D	Additional areas need to be completed as per priorities identified in each TSA.
VRI	Phase 1 & 2	Work is critically needed for the Okanagan TSA but other TSAs are in need of VRI work. Cost sharing is creating a problem for delivery of phase 1 but does not lessen the priority.
Water	Quantity & Quality	Baseline monitoring and establishing water quality objectives in community watersheds is needed. Hydrometric monitoring in under-represented hydrologic zones and stream temperature monitoring in temperature-sensitive streams also needed.
Wildlife	Animals & Habitat	Identified wildlife inventory needed, ungulate winter range info, Red and Blue-listed species and habitat info.
Fish	Fish & Habitat	Need info for determining impacts on riparian areas, watershed assessments, lakes classification, & identified wildlife.
TSA Specific	In addition to the above.	
Kamloops TSA		
Planning	Access	Road files need correcting and updating.
Planning	Imagery	Updated imagery (orthos, photos, or satellite) needed for various planning, TSR & LRMP issues.
Planning	Harvest Constraints	Minimum harvest ages should be replaced with Ht/dbh/vol info for the MAA and operability lines need to be updated and replaced.
VRI	Phase 1	The initiated work on the Veg. Retro-fit needs to be completed.

Program / Issue	Sub-Issue / Activity	Specifics
Wildlife	Wildlife & Wildlife Habitat	Biodiversity modelling; PEM for wildlife interpretations; deer winter range info; Mountain Caribou priority as identified in the Kamloops LRMP; and Grizzly Bear habitat mapping
Lillooet TSA		
Cultural Heritage	Trails (AIS)	The pre-contact trail networks need to be located, documented and mapped.
G&Y	OGSI / VDYPs	OGSI and VDYPs have been specifically identified as needing work in the Lillooet.
Recreation Inventory	Lakes	The lakes inventory for recreation needs to be completed and for efficiency the visual inventory should be completed at the same time.
TEM	For Wildlife	PEM works need to be completed for habitat assessment & mapping but somewhat conflicts with BEC revisions.
Planning	Unsalvaged Losses	Additional work needed with particular reference to pests, WTPs, timber volumes and high stumps.
Planning	TSR/LRMP	The impact of the LRMP on timber supply needs to addressed.
Planning	Access	Access plans for areas identified in the LRMP need to be completed.
Wildlife	Wildlife & Wildlife Habitat	Identified wildlife inventory needed - tailed frog and mountain beaver; provincial recovery strategy species focus (spotted owl and grizzly bear)
Merritt TSA		
Forest Health	NRLs	The effectiveness of the impact of salvage on non-recoverable losses needs to be assessed.
TEM	PEM	The PEM mapping through the IFPA should be co-ordinated with BEC revisions, which are not yet available.
Planning	Riparian Areas	The impact of riparian areas and deciduous management along buffers needs to be addressed for TSR implications.
Planning	Biodiversity	Additional info needed on old growth for biodiversity & OGMA's
Planning	Harvest Constraints	Additional info needed regarding NRLs (specifically tree & block reserves) and for determining the thresholds for watersheds (particularly ReCaps on burns, etc). The quantification of minimum harvest also needs review & update.
Planning	Silviculture	The impacts of incremental silviculture and cattle damage on plantations needs to be addressed for TSR.
Planning	ESAs	A need to evaluate ESAs in relation to TSR and TSM requirements with emphasis on certain watersheds.
Planning	Access	A road & landing database is needed with assessment of densities and the impact on productivity by harvest system.
Wildlife	Wildlife & Wildlife Habitat	Goshawk, tailed frog and mountain beaver inventory; ungulate winter range info - deer and elk priorities; Provincial strategy species habitat info: spotted owl and grizzly bear - all inventory efforts to be coordinated with habitat mapping efforts (PEM) where appropriate

Program / Issue	Sub-Issue / Activity	Specifics
Okanagan TSA		
Planning	Access	Road mapping is needed for LRMP road risk rating and access planning.
Planning	Stream Classes	The fieldwork, stream classification and mapping of these need to be completed.
Planning	Weed Inventory	An inventory of weeds needs to be completed for prevention of spread.
VRI	Phase 1	The entire Okanagan TSA in need of replacing the Forest Cover mapping and providing the associated vegetation inventory. Expensive and problems exist with cost sharing.
Wildlife	Wildlife & Wildlife Habitat	Williamson's sapsucker & White-headed woodpecker inventory; ungulate winter range info, Red and Blue-listed species and habitat info - Mountain Caribou priority; medium carnivore habitat mapping

Appendix – SSFM – 3C

Supporting Schedules and Details

Table 1 **Rec/Visual**

					Five Year Schedule				
Stratetic Decision Location	Knowledge Gap	Specific Work Targets	Yr 2000 Status	Priority	Yr 2000	Yr 2001	Yr 2002	Yr 2003	Yr 2004
(Mgt Unit)	(Sub-Activity)	(Short Description)	(Ongoing?)	(Category)	($$'s)	($$'s)	($$'s)	($$'s)	($$'s)
Kam	Vis. Eff. Assess	Field Inspections of VQOs Kam	new	H	$0	$7,000	$7,000	$7,000	$7,000
Kam	Vis. Eff. Assess	Field Inspections of VQOs Clwtr	new	H	$0	$4,800	$4,800	$4,800	$4,800
Kam	inventory / analysis	Inventory/analysis update for Kam	new	H	$0	$33,400	$33,400	$33,400	$33,400
Kam	inventory / analysis	Inventory/analysis update for Clwtr	new	H	$0	$9,600	$9,600	$9,600	$9,600
Kam	inventory / analysis	Review mapping and VQOs along major hwy corridors in Clwtr	new	VH	$19,200	$0	$0	$0	$0
Kam	Design	Visual Rehab for Kam	new	M	$0	$3,000	$3,000	$3,000	$3,000
Kam	Design	Visual Rehab for Cwtr	new	M	$0	$3,000	$3,000	$3,000	$3,000
Lill	inventory / analysis	Community viewsheds	new	VH	$3,200	$0	$0	$0	$0
Lill	inventory / analysis	Large lakes	new	VH	$4,800	$0	$0	$0	$0
Lill	inventory / analysis	Lillooet small lakes (+/-20)	new	VH	$5,000	$5,000	$0	$0	$0
Lill	inventory / analysis	Kwoiek	new	VH	$0	$1,600	$0	$0	$0
Lill	inventory / analysis	Spruce Lake	new	VH	$0	$7,200	$0	$0	$0
Lill	inventory / analysis	Inventory/analysis update for Lillooet	new	H	$0	$13,200	$13,200	$13,200	$13,200
Lill	Design	Visual Rehab	new	M	$0	$4,000	$4,000	$4,000	$4,000
Lill	Vis. Eff. Assess	Field Inspections of VQOs	new	H	$0	$10,000	$10,000	$10,000	$10,000
Mer	inventory / analysis	Coquihalla Connector	new	VH	$3,200	$0	$0	$0	$0
Mer	inventory / analysis	Hwy 3 south	new	VH	$4,800	$0	$0	$0	$0
Mer	inventory / analysis	Inventory/analysis update for Merritt	new	H	$0	$16,800	$16,800	$16,800	$16,800
Mer	Design	Visual Rehab	new	M	$0	$6,000	$6,000	$6,000	$6,000
Mer	Vis. Eff. Assess	Field Inspections of VQOs	new	H	$0	$10,800	$10,800	$10,800	$10,800

					Five Year Schedule				
Stratetic Decision Location	Knowledge Gap	Specific Work Targets	Yr 2000 Status	Priority	Yr 2000	Yr 2001	Yr 2002	Yr 2003	Yr 2004
(Mgt Unit)	(Sub-Activity)	(Short Description)	(Ongoing?)	(Category)	($$'s)	($$'s)	($$'s)	($$'s)	($$'s)
Okan	inventory / analysis	LRMP review mapping and VQOs for Salmon Arm	new	VH	$9,800	$0	$0	$0	$0
Okan	inventory / analysis	Inventory/analysis update for Salmon Arm	new	H	$0	$16,500	$16,500	$16,500	$16,500
Okan	Design	Visual Rehab SA	new	M	$0	$12,000	$12,000	$12,000	$12,000
Okan	Vis. Eff. Assess	Field inspections of VQOs SA	new	H	$0	$10,000	$10,000	$10,000	$10,000
Okan	inventory / analysis	LRMP review mapping and VQOs for Vernon	new	VH	$13,600	$0	$0	$0	$0
Okan	inventory / analysis	Inventory/analysis update for Vernon	new	H	$0	$20,900	$20,900	$20,900	$20,900
Okan	inventory / analysis	Vernon small lakes (43)	new	VH	$7,500	$7,000	$7,000	$0	$0
Okan	Design	Visual Rehab Vernon	new	M	$0	$4,000	$4,000	$4,000	$4,000
Okan	Vis. Eff. Assess	Field inspections of VQOs Vernon	new	H	$0	$6,000	$6,000	$6,000	$6,000
Okan	inventory / analysis	LRMP review mapping and VQOs for Penticton	new	VH	$8,000	$0	$0	$0	$0
Okan	inventory / analysis	Penticton small lakes (41)	new	VH	$7,500	$7,000	$6,000	$0	$0
Okan	inventory / analysis	Inventory/analysis update for Penticton	new	H	$0	$10,800	$10,800	$10,800	$10,800
Okan	Design	Visual Rehab Pent	new	M	$0	$4,000	$4,000	$4,000	$4,000
Okan	Vis. Eff. Assess	Field inspections of VQOs	new	H	$0	$3,000	$3,000	$3,000	$3,000
				subtotal	$86,600	$236,600	$221,800	$208,800	$208,800

TABLE 2: OPERATE EXISTING HYDROMETRIC STATIONS

Project Name	Works Proposed For 2000/01	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Adams River @ Squilax Kamloops TSA	Operate hydrometric station 2000 - 2005. 1999/00 Proponent: Interfor TOM98107/704571	Underway	8,800	8,800	8,800	8,800	8,800
Chase Creek near Mouth Okanagan TSA	Operate hydrometric station 2000 - 2005. 1999/00 Proponent: Riverside TOM98242/704995	Underway	9,900	9,900	9,900	9,900	9,900
Criss Creek near Mouth Kamloops TSA	Operate hydrometric station 2000 - 2005. 1999/00 Proponent: Weyerhaeuser TOM98110/10506	Underway	8,360	8,360	8,360	8,360	8,360
Ewart Creek @ Cathedral Park Okanagan TSA	Operate hydrometric station 2,000 - 2005. 19/00 Proponent: Riverside TOM98242/704823	Underway	10,065	10,065	10,065	10,065	10,065
Lemieux Creek near Mouth Kamloops TSA	Operate hydrometric station 2000 - 2005. 1999/00 Proponent: Tolko TOM98108/705036	Underway	9,295	9,295	9,295	9,295	9,295
Siwash Creek near Princeton Merritt TSA	Operate hydrometric station 2000 - 2005. 1999/00 Proponent: Weyerhaeuser TOM98313/10570	Underway	10,340	10,340	10,340	10,340	10,340
TOTAL			**56,760**	**56,760**	**56,760**	**56,760**	**56,760**

TABLE 3: INSTALL AND OPERATE PRIORITY A-1 & A-2 HYDROMETRIC STATIONS

Project	Works Proposed For 2000 - 2005	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
White River Hydrometric	Install and operate hydrometric station at White River.	New	29,000	8,000	8,000	8,000	8,000
Stein River Hydrometric	Install and operate hydrometric station at Stein River.	New	29,000	8,000	8,000	8,000	8,000
Hemp Creek Hydrometric	Install and operate hydrometric station at Hemp Creek	New	25,000	8,000	8,000	8,000	8,000
Upper Adams Hydrometric	Install and operate hydrometric station at Upper Adams River.	New	0	29,000	8,000	8,000	8,000
Stryen Creek Hydrometric	Install and operate hydrometric station at Stryen Creek	New	0	29,000	8,000	8,000	8,000
Cottonwood Hydrometric	Install and operate hydrometric station at Cottonwood Creek	New	0	29,000	8,000	8,000	8,000
Arrowstone Hydrometric	Install and operate hydrometric station at Arrowstone Creek	New	0	0	29,000	8,000	8,000
	Subtotal		83,000	111,000	77,000	56,000	56,000

TABLE 4: INSTALL AND OPERATE CLIMATE STATIONS AT A-1 & A-2 HYDROMETRIC STATIONS

Project	Works Proposed 2000 - 2005	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Siwash Climate	Install climate station at Siwash Creek hydrometric station	New	0	7,500	0	0	0
Upper Adams Climate	Install climate station at Upper Adams River hydrometric station	New	0	0	7,500	0	0
Cottonwood Climate	Install climate station at Cottonwood Creek hydrometric station	New	0	7,500	0	0	0
Arrowstone Climate	Install climate station at Siwash Creek hydrometric station	New	0	0	7,500	0	0
Subtotal			0	15,000	15,000	0	0

TABLE 5: REACTIVATE AND OPERATE PRIORITY "A" UPPER ELEVATION MoF FIRE WEATHER STATIONS

Project	Works Proposed	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Pleasant	Re-activate climate station to complement Blue River hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Tum Tum	Re-activate climate station to complement Upper Adams River and Finn Creek hydrometric stations	New	1,500	1,500	1,500	1,500	1,500
Seymour Arm	Re-activate climate station to complement McNomee hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Curwen	Re-activate climate station to complement Shuswap hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Kettle	Re-activate climate station to complement Upper Kettle hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Ashnola	Re-activate climate station to complement Ewart Creek hydrometric station	New	4,500	4,500	4,500	4,500	4,500
Spius	Re-activate climate station to complement Spius Creek hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Roderick	Re-activate climate station to complement Junction Creek hydrometric station	New	5,500	5,500	5,500	5,500	5,500
Coldscour	Re-activate climate station to complement Lemieux Creek hydrometric station	New	1,500	1,500	1,500	1,500	1,500
Tyner	Re-activate climate station to complement Chataway hydrometric station	New	1,500	1,500	1,500	1,500	1,500
	Subtotal "A" Priority		22,000	22,000	22,000	22,000	22,000

TABLE 6: INSTALL AND OPERATE A-3, A-4 AND A-5 HYDROMETRIC STATIONS

Project	Station Name	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
North Thompson Hydrometric	Install and operate hydrometric station on one of two North Thompson River tributaries - Clearwater District	New	29,000	8,000	8,000	8,000	8,000
North Thompson Hydrometric	Install and operate hydrometric station on second of two North Thompson River tributaries - Clearwater District	New	29,000	8,000	8,000	8,000	8,000
Upper Finn Hydrometric	Install and operate hydrometric station on Upper Finn Creek - Clearwater District	New	25,000	8,000	8,000	8,000	8,000
Sicamous Creek Hydrometric	Install and operate hydrometric station on Sicamous Creek - Salmon Arm District	New	0	29,000	8,000	8,000	8,000
Bill Fraser Creek Hydrometric	Install and operate hydrometric station on Bill Fraser Creek - Vernon District	New	0	29,000	8,000	8,000	8,000
Upper Kettle Hydrometric	Install and operate hydrometric station on Upper Kettle River - Vernon District	New	0	29,000	8,000	8,000	8,000
Kwinshatin Hydrometric	Install and operate hydrometric station on Kwinshatin Creek - Merritt District	New	0	0	29,000	8,000	8,000
Lost Valley Hydrometric	Install and operate hydrometric station on Lost Valley Creek - Lillooet District	New	0	0	29,000	8,000	8,000
Junction Creek Hydrometric	Install and operate hydrometric station on Junction Creek - Lillooet District	New	0	0	29,000	8,000	8,000
	Subtotal		83,000	111,000	135000	72000	72000

TABLE 7: INSTALL AND OPERATE CLIMATE STATIONS AT A-3, A-4 & A-5 HYDROMETRIC STATIONS

Project	Works Proposed for 2000 - 2003	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Upper Finn Climate	Install climate station at Upper Finn hydrometric station - Clearwater District	New	0	0	7,500	0	0
Bill Fraser Climate	Install climate station at Bill Fraser hydrometric station - Vernon District	New	0	0	7,500	0	0
Kwinshatin Climate	Install climate station at Kwinshatin hydrometric station - Merritt District	New	0	0	7,500	0	0
Lost Valley Climate	Install climate station at Lost Valley hydrometric station - Lillooet District	New	0	0	7,500	0	0
Junction Climate	Install climate station at Junction hydrometric station - Lillooet District	New	0	0	7,500	0	0
	Subtotal		0	0	37,500	0	0

TABLE 8: WATER QUALITY MONITORING PROJECTS - KAMLOOPS TSA PLANNING UNIT

Project Name	Works Proposed For 2000/01	Year 2000 Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Russell	Continue water sample collection and auto station operation through 2001/02. Finish report 2002/03 Operate auto station for flow only to 2005.	Underway	16,500	16,500	6,160	3,960	3,960
Hascheak	Continue water sample collection through 2001/02. Finish report 2002/03.	Underway	16,500	16,500	2,200	0	0
McDougall	Continue water sample collection through 2001/02. Finish report 2002/03.	Underway	16,500	16,500	2,000	0	0
Subtotal	**1999/00 Proponent Weyerhaeuser TOM98110 704504**		**49,500**	**49,500**	**10,360**	**3,960**	**3,960**
Tranquille	Collect water samples through freshet. Operate automated station full year. Write report 2001/02. Operate auto station for flow only to 2005.	Underway	16,500	10,560	3,960	3,960	3,960
Peterson	Collect water samples through freshet. Operate automated station full year. Write report 2001/02. Operate auto station for flow only to 2005.	Underway	16,500	10,560	3,960	3,960	3,960
Paul	Collect water samples through freshet. Operate automated station full year. Write report 2001/02. Operate auto station for flow only to 2005.	Underway	16,500	10,560	3,960	3,960	3,960
Subtotal	**1999/00 Proponent Weyerhaeuser TOM98110 10506**		**49,500**	**31,680**	**11,880**	**11,880**	**11,880**
Jimmies	Continue water sample collection through 2001/02. Write report 2002/03.	Underway	16,500	16,500	6,600	0	0
Cornwall	Sampling completed 1999/00. Write water quality assessment and objectives report 2000/01.	Underway	6,600	0	0	0	0
Subtotal	**1999/00 Proponent Ainsworth TOM98105 8860**		**23,100**	**16,500**	**6,600**	**0**	**0**
Kamloops Total			**122,100**	**97,680**	**28,840**	**15,840**	**15,840**

TABLE 9: WATER RESOURCE INVENTORY PROJECTS - MERRITT DISTRICT

Project Name	Works Proposed For 2000/01	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Brook	Sampling completed 1999/00. Write final report 2000/01.	Underway	6,600	0	0	0	0
Kwinshatin	Collect water samples, operate continuous stream temperature monitors and measure flow through freshet 2002/03. Write final report 2003/04.	Underway	19,250	19,250	9,626	6,600	0
Upper Nicola	Install and operate continuous tream temperature monitors through 2002/03.	New	27,500	27,500	27,500	0	0
Subtotal	**1999/00 Proponent Tolko TOM98311**	**10563**	**53,350**	**46,750**	**37,126**	**6,600**	**0**
Dillard	Collect water samples through freshet 2000/01 and operate automated station full year. Write report in 2001/02. Operate auto station for flow only to 2005.	Underway	16,500	10,560	3,960	3,960	3,960
Spius	Continue to operate continuous stream temperature monitors through 2002/03.	Underway	27,500	27,500	27,500	0	0
Subtotal	**1999/00 Proponent Weyerhaeuser TOM98313 10570**		**44,000**	**38,060**	**31,460**	**3,960**	**3,960**
Spius	Operate continuous stream temperature monitors. Perform flow and suspended sediment measurements through 2002/03.	Underway	22,000	22,000	22,000	0	0
Skuhun	Sampling completed 1999/00. Write water quality assessment and objectives final report 2000/01..	Underway	6,600	0	0	0	0
Subtotal	**1999/00 Proponent Aspen Planers TOM98312 10584/11957**		**28,600**	**22,000**	**22,000**	**0**	**0**
Merritt Total			**125,950**	**106,810**	**90,586**	**10,560**	**3,960**
Merritt Stream Temperature Underway			**49,500**	**49,500**	**49,500**	**0**	**0**
Merritt Stream Temperature New			**27,500**	**27,500**	**27,500**	**0**	**0**
Merritt Water Quality Underway Only			**48,950**	**29,810**	**13,586**	**10,560**	**3,960**

TABLE 10: WATER RESOURCE INVENTORY PROJECTS - LILLOOET DISTRICT

Project Name	Works Proposed For 2000/01	Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Siska/Mowhocam	Continue water sampling, stream temperature monitoring and flow measurement	Underway	33,000	33,000	29,700	0	0
Lost Valley	Continue full year of water sampling	Underway	13,200	13,200	13,200	13,200	13,200
Murray	Sampling completed 1999/00. Final water quality assessment and objectives report 2000/01.	Underway	6,600	0	0	0	0
Total	**1999/00 Proponent JS Jones 101620**	**TOM98404**	**52,800**	**46,200**	**42,900**	**13,200**	**13,200**

TABLE 11: WATER QUALITY MONITORING PROJECTS - OKANAGAN TSA PLANNING UNIT

Project Name	Works Proposed	2000/01 Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Penticton	Collect water samples through freshet 2000/01. Operate automated station full year. Write report 2001/02. Operate auto station for flow only to 2005.	Under way	16,500	10,560	3,960	3,960	3,960
Shuttleworth	Collect water samples through freshet 2000/01. Operate automated station full year. Write report 2001/02. Operate auto station for flow only to 2005.	Under way	16,500	10,560	3,960	3,960	3,960
Shatford	Collect water samples and operate auto station to mid 2002. Write report in 2002/03. Operate auto station for flow only to 2005.	Under way	16,500	14,850	10,560	3,960	3,960
Subtotal	**1999/00 Proponent Weyerhaeuser TOM98209 101779**		**49,500**	**35,970**	**18,480**	**11,880**	**11,880**
Bolean	Collect water samples to August 2000. Operate automated wq station to 2005. Write report in 2001/02.	Under way	26,400	23,100	17,600	17,600	17,600
Silver	Collect water samples to August 2000. Write report in 2001/02.	Under way	7,700	6,600	0	0	0
Salmon	Operate automated wq stations d/s Falkland and @ Hwy 1 full year 2000/01. Write report 2001/02.	Under way	34,100	11,000	0	0	0
Subtotal	**1999/00 Proponents:** **Riverside TOM98242 100867** **Tolko TOM98240 11904** **Federated TOM98252 704608**		**68,200**	**40,700**	**17,600**	**17,600**	**17,600**
Lambly	Report written 1999/00. Operate automated station for streamflow only	Under way	3,960	3,960	3,960	3,960	3,960
Powers	Report written 1999/00. Operate automated station for streamflow only	Under way	3,960	3,960	3,960	3,960	3,960
Upper Nicola	Operate continuous stream temperature monitors	Under way	8,250	8,250	8,250	0	0
Subtotal	**1999/00 Proponent Riverside TOM98242 704970/704969**		**16,170**	**16,170**	**16,170**	**7,920**	**7,920**
Trout	Report written 1999/00. Operate automated station for streamflow only to 2005.	Under way	3,960	3,960	3,960	3,960	3,960
Shingle	Collect water samples and operate auto station to mid 2002. Write report in 2002/03. Operate auto station for flow only to 2005.	Under way	19,250	15,400	10,560	3,960	3,960

Project Name	Works Proposed	2000/01 Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Upper Nicola	Operate continuous stream temperature monitors.	Under way	8,250	8,250	8,250	0	0
Joe Rich	Water quality monitoring	New	19,250	19,250	19,250	6,600	0
Subtotal	**1999/00 Proponent Gorman TOM98253 10555/10565**		**50,710**	**46,860**	**38,060**	**14,520**	**7,920**
East Canoe	Water quality assessment and objectives final report preparation	Under way	6,600	0	0	0	0
Sicamous	Water quality assessment and objectives final report preparation.	Under way	6,600	0	0	0	0
Chase	Collect water samples through to 2002/03. Write final report 2003/04.	Under way	16,500	16,500	16,500	6,600	0
Subtotal	**1999/00 Proponent Tolko TOM98242 11899**		**29,700**	**16,500**	**16,500**	**6,600**	**0**

Project Name	Works Proposed For 2000/01	2000/01 Status	Cost 2000/01	Cost 2001/02	Cost 2002/03	Cost 2003/04	Cost 2004/05
Brash	Collect samples through freshet 2000/01. Write report 2001/02.	Under way	13,200	6,600	0	0	0
Duteau	Report planned for 99/00. Operate automated station through to 2002/03 and for flow only to 2005.	Under way	6,600	6,600	6,600	3,960	3,960
Kelowna	Report planned for 1999/00. Operate automated station for flow only to 2005	Under way	3,960	3,960	3,960	3,960	3,960
Mission	Write report in 2000/01. Operate automated station for flow only to 2005.	Under way	10,560	3,960	3,960	3,960	3,960
Peachland	Write report in 2001/02. Operate automated station for flow only to 2005.	Under way	3,960	10,560	3,960	3,960	3,960
BX	Collect water samples through freshet 2000/01. Write report in 2001/02.	Under way	11,000	6,600	0	0	0
Deer	Collect water samples through to 2001/02. Write final report in 2002/03.	Under way	16,500	16,500	6,600	0	0
Coldstream	Water quality assessment and objectives final report preparation in 2000/01.	Under way	6,600	0	0	0	0
Oyama	Collect water samples and operate automated station full year 2000/01. operate auto station for flow only to 2005.	Under way	16,500	10,560	3,960	3,960	3,960
Vernon	Collect water samples and operate automated station full year 2000/01. operate auto station for flow only to 2005.	Under way	16,500	10,560	3,960	3,960	3,960
Robinson	Water quality assessment and objectives final report preparation 2000/01. Operate automated station for flow only to 2005.	Under way	10,560	3,960	3,960	3,960	0

Keremeos	Collect water samples and operate auto station to mid 2002. Write report in 2002/03. Operate auto station for flow only to 2005.	Under way	16,500	14,850	3,960	3,960	3,960
Subtotal	**1999/00 Proponent Riverside TOM98242 704823**		**132,440**	**94,710**	**40,920**	**31,680**	**27,720**
Okanagan Total			346,720	250,910	147,730	90,200	73,040
Stream Temperature Only			**16,500**	**16,500**	**16,500**	**0**	**0**
New wq			**19,250**	**19,250**	**19,250**	**6,600**	**0**
Okanagan Underway			**310,970**	**215,160**	**111,980**	**83,600**	**73,040**

Table 12		**Kamloops IFPA - SSFM**						
				Five Year Schedule				
Stratetic Decision Location	Issue	Knowledge Gap	Specific Work Targets	Yr 2000	Yr 2001	Yr 2002	Yr 2003	Yr 2004
(Mgt. Unit)	(Activity)	(Sub-Activity)	(Short Description)	($$'s)	($$'s)	($$'s)	($$'s)	($$'s)
IFPA-K	Analysis	Models	Spatial analysis of harvesting vs constraints	$0	$0	$0	$60,000	$0
IFPA-K	Analysis	TSA	Prep for TSR	$0	$0	$20,000	$0	$0
IFPA-K	FH	Models	Forest health modeling	$0	$0	$30,000	$0	$0
IFPA-K	Fish	Enhance	Fisheries enhancement	$0	$15,000	$25,000	$23,000	$30,000
IFPA-K	Fish	Inventory	Rare fish species inventory	$0	$30,000	$25,000	$25,000	$0
IFPA-K	G&Y	Managed Stands	GIS Silviculture records for MSYTs	$40,000	$0	$0	$0	$0
IFPA-K	G&Y	Managed Stands	MSYTs	$0	$0	$0	$30,000	$0
IFPA-K	G&Y	OAFs	OAFs for MSYTs	$15,000	$45,000	$0	$0	$0
IFPA-K	G&Y	PSPs	Establishment in managed stands	$25,000	$25,000	$40,000	$40,000	$0
IFPA-K	G&Y	PSPs	PSP program review	$20,000	$0	$0	$0	$0
IFPA-K	G&Y	PSPs	Monitoring plan, then monitoring plots	$30,000	$40,000	$30,000	$20,000	$0
				Five Year Schedule				
IFPA-K	G&Y	SIBEC	Sampling	$75,000	$0	$0	$0	$0
IFPA-K	G&Y	SIBEC	Sampling	$100,000	$0	$0	$0	$0
IFPA-K	G&Y	Stem Analysis	ICH stem analysis & modeling	$60,000	$60,000	$40,000	$0	$0
IFPA-K	G&Y	Stem Analysis	Young stands	$0	$20,000	$17,000	$0	$0
IFPA-K	Planning	Developmt	Extension Services & work with ministries	$0	$20,000	$15,000	$0	$20,000
IFPA-K	Planning	Inventory	Review & strategic plans for each inventory	$25,000	$25,000	$25,000	$25,000	$40,000
IFPA-K	Recreation	Site Rehab	Sites, facilities, access	$0	$23,000	$0	$0	$0
IFPA-K	Recreation	Visual	Viewscape design modeling	$0	$0	$0	$20,000	$40,000
IFPA-K	Studies	End Products	Future product analysis	$20,000	$0	$0	$0	$0
IFPA-K	Studies	IRM	Other IRM	$10,000	$0	$30,000	$30,000	$30,000
IFPA-K	Studies	Models	Review greenup models	$20,000	$0	$0	$0	$0
IFPA-K	Studies	TELSA	Landscape modeling	$30,000	$30,000	$0	$30,000	$0
IFPA-K	TEM	BEC	BGC linework, OGMA, & biodiversity	$0	$0	$0	$25,000	$0
IFPA-K	VRI	NVAF	Net Volume Adjustment Factors - tree sampling	$5,000	$20,000	$0	$0	$0
IFPA-K	VRI	Phase 1	FC map adjustment combine with MOF	$45,000	$0	$0	$0	$0
IFPA-K	VRI	Phase 1	History Update - Maps & database.	$0	$50,000	$100,000	$0	$0

IFPA-K	VRI	Phase 2	Within Polygon Variation (WPV) sampling	$0	$25,000	$0	$0	$0
IFPA-K	Water	Quality	Hydrologic-fish-water quality overview	$30,000	$25,000	$0	$0	$0
IFPA-K	Wildlife	Enhance	Wildlife enhancement	$0	$30,000	$0	$0	$50,000
IFPA-K	Wildlife	Habitat	Habitat modeling	$20,000	$30,000	$0	$0	$0
IFPA-K	Wildlife	Plans / Habitat	Habitat field work & plans	$20,000	$20,000	$20,000	$0	$0
				$590,000	$533,000	$417,000	$328,000	$210,000

Appendix – SSFM – 3D

Summary of Written Suggestions and Comments

Following is a brief summary of the written comments and suggestions received regarding the SSFM component of the RMP. Many of these have resulted in adjustments to the tabular summaries. Copies of the comments in their entirety are available on request.

1. Lillooet Tribal Council (LTC) – Earl Holley – Supporting TUS's and ground truthing (AIS's) over further expenditures on AOA's. Also suggesting the LTC and St'at'imc communities should be involved or administer delivery of any activities regarding their cultural heritage.

2. Okanagan Nation Alliance – Rob Hutton – Suggested priorities with short rationales and five year investment amounts for TUS's and AIS's. These were for the Okanagan Indian Band, the Lower Similkameen Indian Band, the Okanagan Nation Alliance and the Upper Nicola Indian Band.

3. MOF Kamloops District – Ken Chantler – Pointing out the need for a Recreation Inventory and GPS mapping of arterial trails in the Logan Lake to Greenstone Mountain to Inks Lake area. This was not included in the initial drafts and recent public meetings have confirmed the need.

4. Ainsworth Lumber – Paul Christensen – Indicating that priorities for the Lillooet Planning Unit are not being addressed. In particular the recommended investments for TSM will lengthen the time to deliver this work to unacceptable time frames.

5. Tolko Industries – John Dunford – A number of points raised including:

    - The SSFM plan contains significant "downloading" of programs previously funded through ministry budgets which is creating difficulties in delivery of other works.
    - A concern regarding inclusion of NEW programs showing up such as recreation / visual analysis as well as new climate & hydrometric stations.
    - A concern regarding inclusion of PREVIOUS agency programs such as the Caribou Inventory at the expense of other worthwhile projects such as air photography in the Kamloops TSA. The air photos are a strategic necessity for most other inventory projects.